ORDER NO. MD9905083C3

Service Manual

AV Control Stereo Receiver * DOLBY SURROUND PRO • LOGIC

Receiver

SA-AX730

Colour

(K) . . . Black Type

Area

Suffix for Model No.	Area	Colour
(GC)	Asia, Latin America, Africa & Middle Near East.	(K)
(GN)	Oceania	

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■ Specifications

■ AMPLIFIER SECTION

Power output (at 240 V for Australia and N.Z.)
(at 127 V for others)
DIN 1 kHz (T. H. D. 1%) 2 X 100 W (6Ω)
20 Hz–20 kHz continuous power output
both channels driven 2 X 80 W (6Ω)
Total harmonic distortion
rated power at 20 Hz – 20 kHz 0.05% (6Ω)
half power at 1 kHz 0.03% (6Ω)
Power output at the Dolby Pro Logic operation
DIN 1 kHz (T. H. D. 1%)
Front (For Australia and N. Z.) 2 X 100 W (6Ω)
(For others) 2 X 85 W (6Ω)
Center (For Australia and N. Z.) 100 W (6Ω)
(For others) 85 W (6Ω)
Surround (For Australia and N. Z.) 2 X 100 W (6Ω)
(For others) 2 X 85 W (6Ω)
Power bandwidth both channels driven,-3dB 10Hz - 40kHz (6Ω)
Damping factor 30 (6Ω)
Load impedance
Front
A or B 4-16 Ω
A and B 8-16 Ω
Center 6-16 Ω
Surround 6-16 Ω
Frequency response
PHONO RIAA standard curve(30Hz-15kHz) ± 0.8 dB
CD, TAPE, DVD, VCR, TV 10 Hz – 40 kHz, ± 3 dB
Input sensitivity and impedance
PHONO 3 mV / 47 kΩ
CD, TAPE, DVD, VCR, TV 200 mV / 22 kΩ
S/N at rated power (6Ω)
PHONO 70 dB (IHF, A : 80dB)
CD, TAPE, DVD, VCR, TV 75 dB (IHF, A : 85dB)
Tone controls
BASS 50 Hz, +10 to -10 dB
TREBLE 20 kHz, +10 to -10 dB
Output voltage TAPE REC (OUT), VCR OUT 200 mV
Channel balance (250 Hz - 6.3 kHz) ±1 dB
Channel separation 55 dB
Headphones output level and impedance 430 mV / 330Ω
Sub-Woofer frequency response 7 -100 Hz, ±3 dB

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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■ FM TUNER SECTION

Frequency range	87.5 — 108.0 MHz
Sensitivity	
S/N 30 dB	1.5 µV / 75Ω
S/N 26 dB	1.3 µV / 75Ω
S/N 20 dB	1.2 µV / 75Ω
IHF uasble sensitivity (IHF' 58)	1.5 µV / 75Ω
IHF 46 dB stereo quieting sensitivity	22 µV / 75Ω
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	60 dB (73 dB, IHF)
STEREO	58 dB (67 dB, IHF)
Frequency response 20Hz - 15 kHz	+1 dB, –2 dB
Alternate channel selectivity ±400 kHz	65 dB
Capture ratio	1.5 dB
Image rejection at 98MHz	40 dB
IF rejection at 98 MHz	70 dB
Spurious response rejection at 98MHz	70 dB
AM suppression	50 dB
Stereo separation	
1 kHz	40 dB
Carrier leak	
19 kHz	-30 dB (-35 dB, IHF)
38 kHz	-50 dB (-55 dB, IHF)
Channel balance (250 Hz - 6.3 kHz)	± 1.5 dB
Limiting point	1.2 µV
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminal(s)	75Ω (unbalanced)

■ AM TUNER SECTION

Frequency range	522 - 1611 kHz (9 kHz steps) 530 - 1620 kHz (10 kHz steps)
Sensitivty	20 µV, 330 µV/m
Selectivity (at 999 kHz)	55 dB
IF rejection (at 999 kHz)	50 dB

■ VIDEO SECTION

Output voltage at 1V input (unbalanced)	1±0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75 Ω

■ GENERAL

Power consumption	240 W (In standby mode : 3 W)
Power supply (For Australia and N. Z.)	AC 230-240 V, 50 Hz
(For others)	AC 110-127 V / 220-240 V, 50 / 60 Hz
Dimensions (W x H x D)	430 x 158 x 324.5 mm
Weight	9.7 kg

Notes :

1. Specifications are subject to change without notice.
   Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

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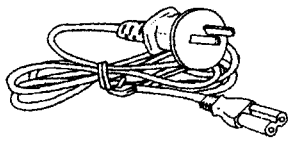
■ Before Use

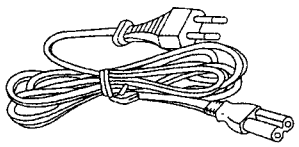
[FOR (GC) AREA]

Be sure to disconnect the mains cord before adjusting the voltage selector.
Use a minus (-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used.
(If the power supply in your area is 117 V or 120 V , set the voltage selector to the " 127V " position.)
Note that this unit will be seriously damaged if this setting is not made correctly.
(There is no voltage selector for some countries; the correct voltage is already set.)

■ Accessories

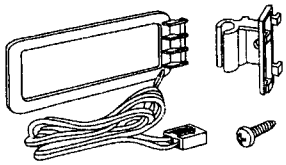


For Australia and N.Z.

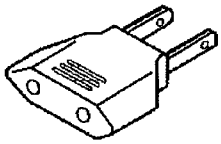


For Others

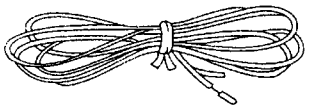
Power Supply Cord



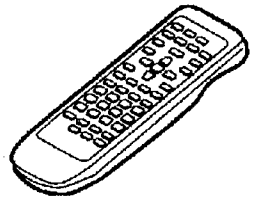
AM Loop antenna set



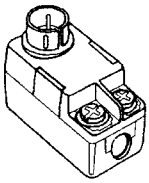
AC cord adaptor



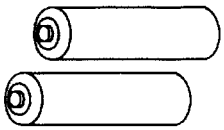
FM indoor antenna



Remote Control



Antenna plug



Batteries

■ Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C703, C704, C705 and C706 through a 10Ω , 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

For GC : Current consumption at AC 110 - 127 V and 220 - 240 V , 50/60 Hz in NO SIGNAL mode should be 425 ~ 575 mA and 220 ~ 320 mA respectively.

For GN : Current consumption at AC 230~240 V, 50Hz in NO SIGNAL mode should be 240 ~ 330 mA.

■ Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed :

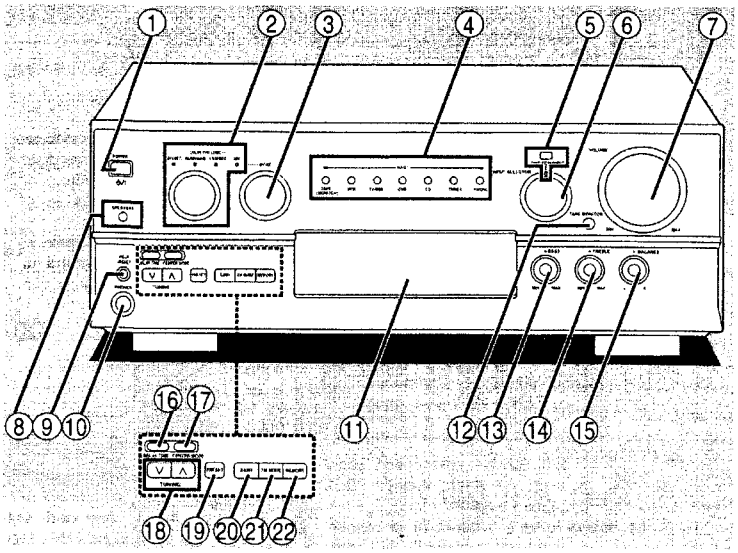
- No sound is heard when the power is turned on.
- Sound stops during a performance.

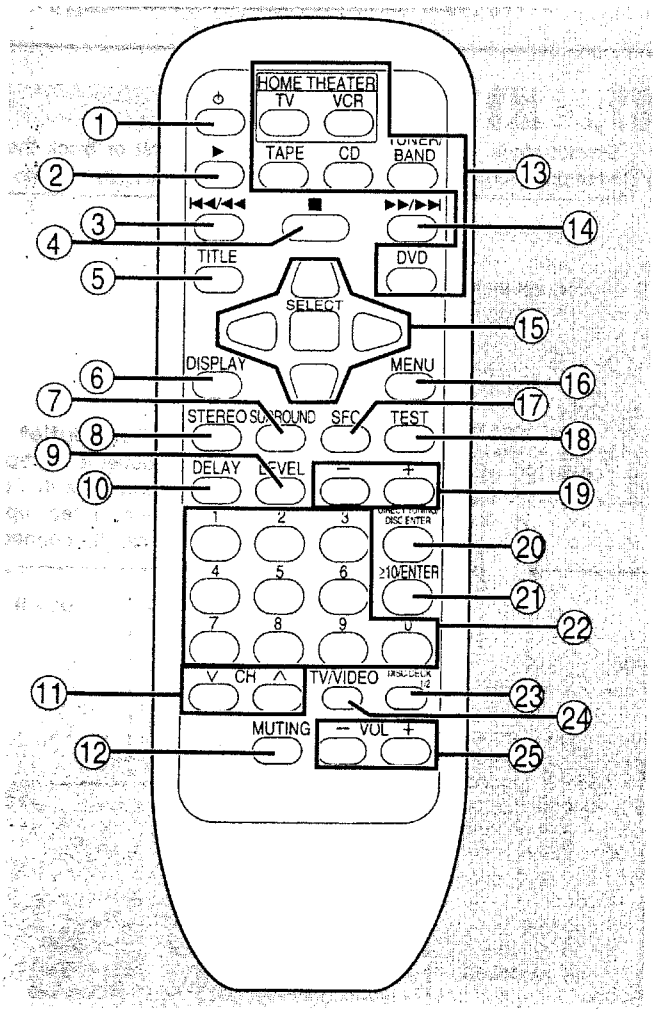
The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.
If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

Front Panel Controls



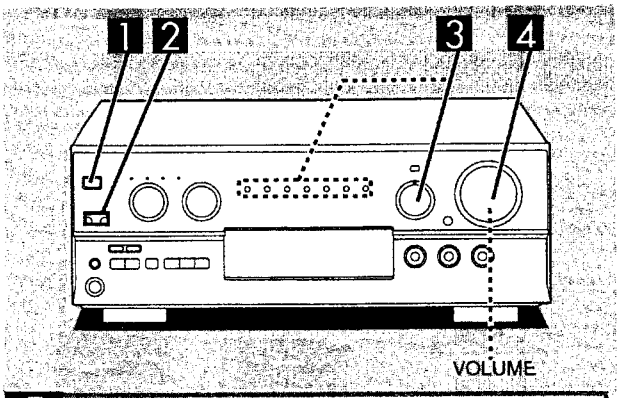


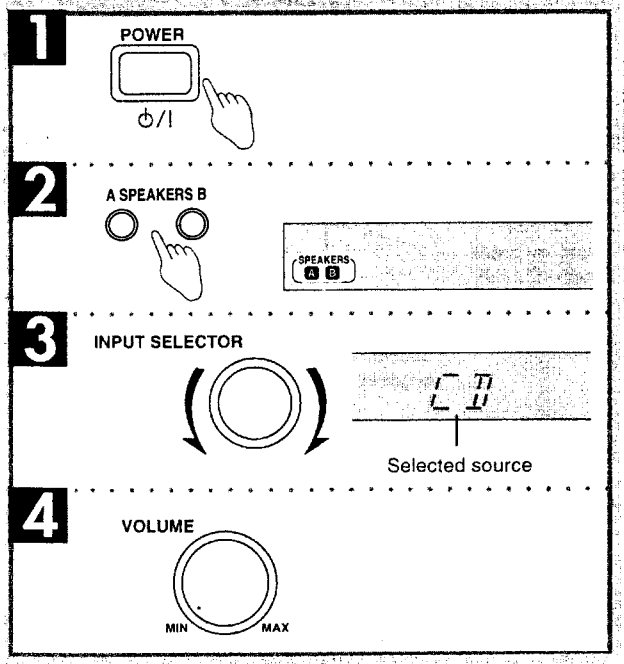
No.	Name
①	Power " ⏻/I" switch (POWER, ⏻/I) Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
②	Sound mode selector/indicators
③	SFC mode selector (MODE)
④	Input indicators
⑤	DVD 6ch input select button/indicator (DVD 6CH INPUT)
⑥	Input selector (INPUT SELECTOR)
⑦	Volume control (VOLUME)
⑧	Speaker button (SPEAKERS A, B)
⑨	Help/reset button (-HELP –RESET)
⑩	Headphones jack (PHONES)
⑪	Display
⑫	Tape monitor button (TAPE MONITOR)
⑬	Bass control (BASS)
⑭	Treble control (TREBLE)
⑮	Balance control (BALANCE)
⑯	Delay time adjust button (DELAY TIME)
⑰	Center mode select button (CENTER MODE)
⑱	Tuning buttons (TUNING ∨,∧)
⑲	Radio station presetting button (PRESET)
⑳	Band select button (BAND)
㉑	FM mode select button (FM MODE)
㉒	Memory button (MEMORY)

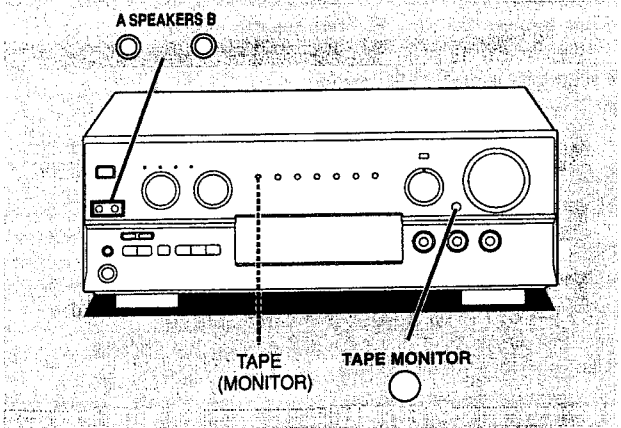
Remote control

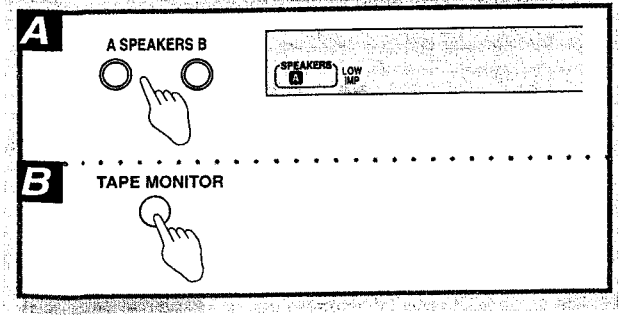
① Power button (⏻)
② ▸ button (▸)
③ ⏮/◂◂ button (⏮/◂◂)
④ ■ button (■)
⑤ Title button (TITLE)
⑥ Display button (DISPLAY)
⑦ Dolby Pro Logic surround select button (SURROUND)
⑧ Dolby Pro Logic/SFC off button (STEREO)
⑨ Speaker channel select button (LEVEL)
⑩ Delay time button (DELAY)
⑪ Channel up/down buttons (∨CH∧)
⑫ Muting button (MUTING)
⑬ Input select buttons (TV, VCR, TAPE, CD, TUNER/BAND, DVD)
⑭ ▸▸/⏭ button (▸▸/⏭)
⑮ Cursor/select buttons
⑯ Menu button (MENU)
⑰ SFC mode select button (SFC)
⑱ Test button (TEST)
⑲ Delay time/level adjust buttons (–, +)
⑳ Direct tuning/disc enter button (DIRECT TUNING/DISC ENTER)
㉑ ≥10/enter button (≥10/ENTER)
㉒ Numeric buttons
㉓ Disc/deck 1/2 select button (DISC/DECK 1/2)
㉔ TV/video select button (TV/VIDEO)
㉕ Volume buttons (–VOL+)

Basic Operations









Before operation, set VOLUME to the "MIN" position.

1 Press [POWER].

2 Press [A] and/or [B] to select the speaker system(s) to be used.

A and B refer to the speaker terminals at the rear of the unit.

3 Turn [INPUT SELECTOR] to select and start the desired source.

(Refer to the appropriate operating instructions for details.)

The indicator which corresponds to the selected input source will illuminate.
The selected source will be shown on the display.

TAPE (MONITOR): To listen to cassette tapes
VCR: To watch video tapes
TV/DSS: To watch TV or DSS
DVD: To watch DVD
CD: To listen to compact discs
TUNER: To listen to radio broadcasts
PHONO: To listen to phono discs

If a Dolby Pro Logic or SFC mode has been selected

After displaying the selected source, the display will then change to show the Dolby Pro Logic or SFC mode.
If the source chosen was TUNER then the display will change again to show the frequency.

Note

To watch a video (or DVD) or the TV, set the TV to either the TV mode or VIDEO mode.

For your reference

If you are using a VCR and you select TAPE, CD, TUNER, or PHONO, the picture will remain on the screen.

4 Adjust the volume.

When you finish listening

Be sure to reduce the volume level, and switch the power to the standby condition by pressing [POWER].

When using speakers under 8 Ω A

Press and hold [A] or [B] until "LOW IMP" lights up on the display.

If even one of the speakers being used has an impedance under 8 Ω, press and hold down either button A or button B for 4 seconds or more to set the impedance to LOW.

(Press and hold down once again for 4 seconds or more to turn it off.)

Note that when "LOW IMP" is illuminated, speakers A and B cannot both be used at the same time.

To change a speaker:

e.g. To use speaker B, press [A] (A goes out), and then press [B] to activate speaker B.

Tape monitor B

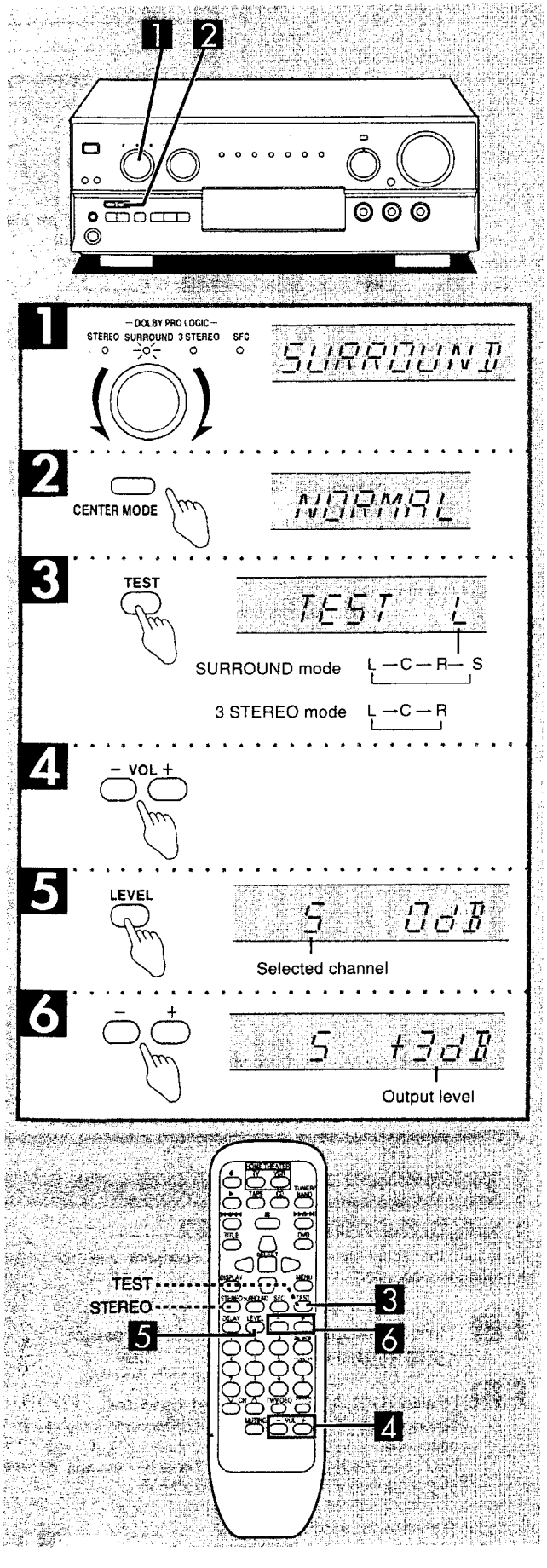
If [TAPE MONITOR] is pressed while a source other than "TAPE (MONITOR)" is selected, the "TAPE (MONITOR)" indicator lights and the tape monitor comes on.

Sources other than tape can still be selected with [INPUT SELECTOR] while the "TAPE (MONITOR)" indicator is on.

Press [TAPE MONITOR] again to turn the tape monitor off.

(➡ See "Making a recording" for details on how to use the tape monitor during recording.)

Dolby Pro Logic



Setting the center mode and adjusting speaker output level

- When ready to adjust speaker output level, situate yourself where you would normally be listening.
- First turn ON the speakers with SPEAKER A on the receiver.
- If front speaker volume is unbalanced, adjust the balance with [BALANCE].

Note

Ensure the front speakers are connected to the A terminals when you use Dolby Pro Logic. The Dolby Pro Logic modes cannot be turned on if "SPEAKERS B" is selected.

The following steps are for setting the output level of the front speakers and the center/surround speakers to the same listening level.

1 Turn the sound mode selector to select "SURROUND".

Note

1. Select "3 STEREO" if surround speakers have not been connected.
2. Remember you cannot adjust the output level of the surround speakers if you selected "3 STEREO" mode.

2 Press [CENTER MODE] to select the correct center mode.

When the button is pressed, the current center mode is displayed. Pressing it again changes the center mode.

NORMAL
When the center speaker is smaller than the front speakers.
WIDEBAND
When the center speaker is the same size as or larger than the front speakers.
PHANTOM SURROUND mode only
When no center speaker is connected.

Note

In the PHANTOM mode, the sound which would have been sent to the center speaker will be divided equally between both the left and right front speakers.

by remote control only

3 Press [TEST] to output a test signal.

The speaker outputting the test signal is displayed while the test is running.

L : Front speaker (Left) R : Front speaker (Right)
C : Center speaker S : Surround speakers

The subwoofer is muted while testing.

In the PHANTOM mode, the center speaker is OFF, so there is no center test signal and "C" is not displayed.

4 Press [VOL (–) or (+)] to set the volume level normally used for enjoying the source.

5 Press [LEVEL] to select the center or surround speakers.

6 Press [–] or [+] to adjust the output level.

Adjust the output level of each speaker from the listening position until they are all identical.

–: Decrease the output level.
+: Increase the output level.

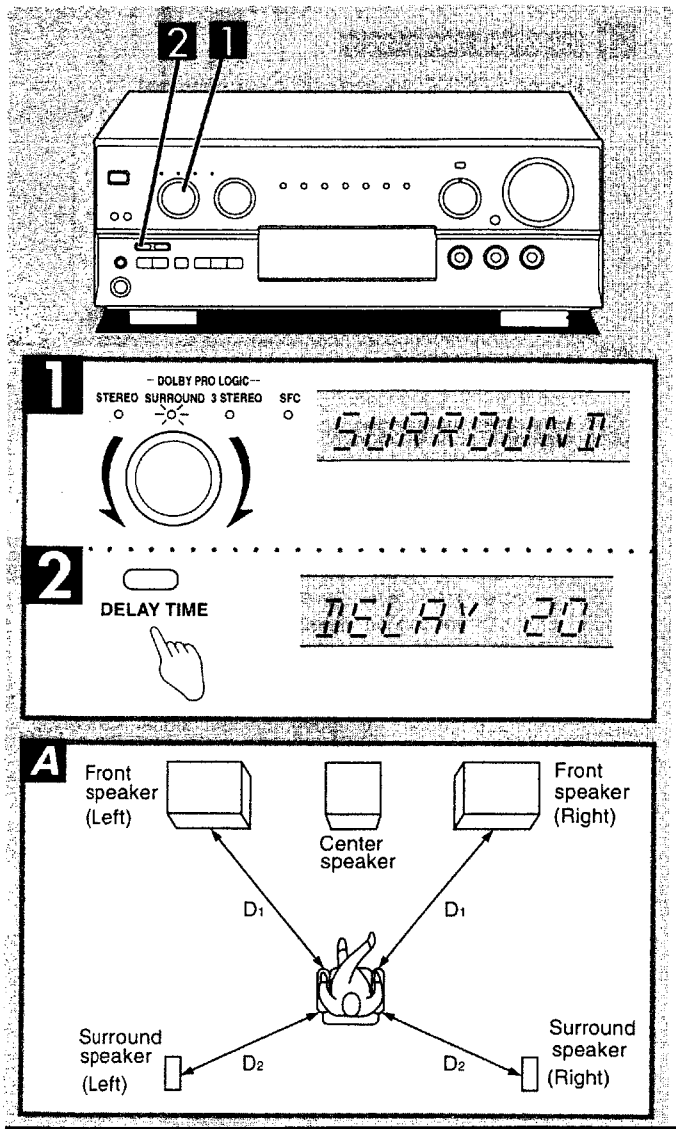
Output level can be varied within a range of –12 dB to +12 dB with front speaker output level serving as the zero point.

Note

During steps 5 and 6 above the test signal sequence is interrupted and the signal will only come from the selected speaker. The sequence will resume when adjustments are stopped.

To stop the test signal
Press [TEST].

To turn off the Dolby Pro Logic systems
Press [STEREO].



Adjusting the delay time

When enjoying with SURROUND only

Adjust the sound from the surround speakers until the proper effect is produced.

1 Turn the sound mode selector to select "SURROUND".

2 Press [DELAY TIME] to set the time.

When the button is pressed, the current delay time is displayed.

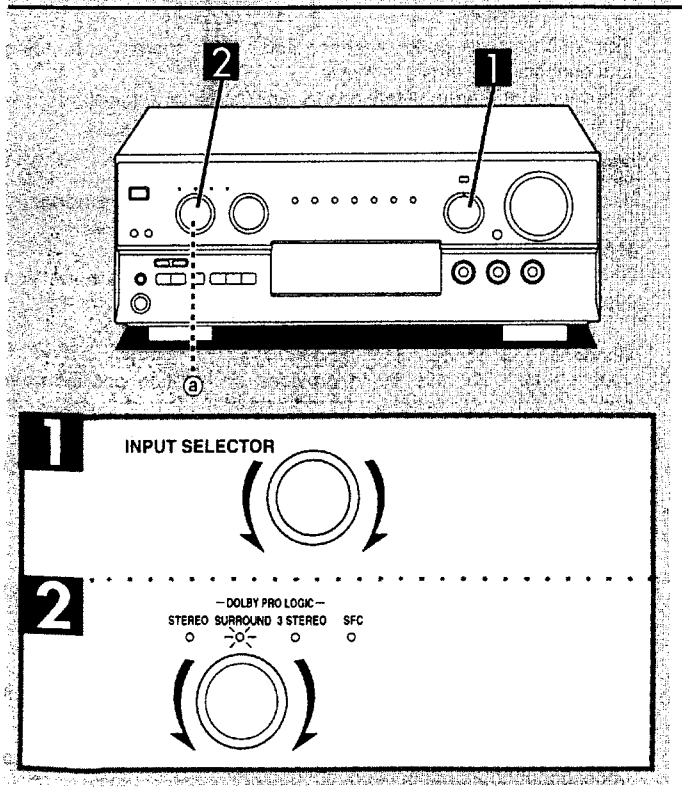
Each time the button is pressed, the delay time will increase by 5 ms within a range of 15 ms to 30 ms.

The standard setting is 20 ms.

To calculate the delay time A

D_1: Distance from front speakers
D_2: Distance from surround speakers

- If D_1 is equal to or less than D_2
  Set to 15 ms.
- If D_2 is less than D_1
  Start at 15 ms and increase by 5 ms for every 1.5 m of difference between D_1 and D_2.



Enjoying SURROUND or 3 STEREO

1 Turn [INPUT SELECTOR] to select and start the desired source.

2 Turn the sound mode selector to select "SURROUND" or "3 STEREO".

Note

When employing SURROUND, use software recorded in Dolby Surround.

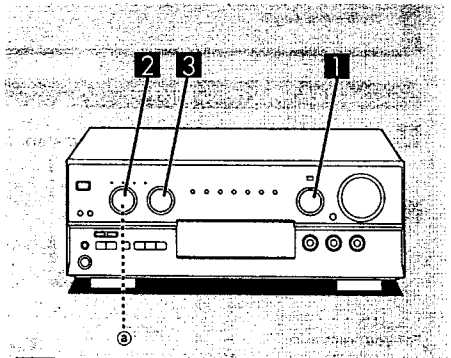
For your reference

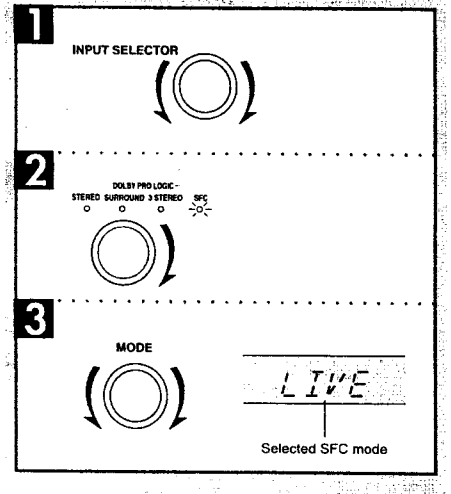
You can set the Dolby Pro Logic mode for each source.
Each source will retain the selected mode.

To turn off the Dolby Pro Logic systems

Turn the sound mode selector (ⓐ) to select "STEREO".

Sound Field contol (SFC)





The SFC function gives presence and spread thereby enhancing and enriching the music or movie.
Read the following explanations in order to better understand how to make your selection.

Note
The center speaker is not used in the hall, and simulated modes.

HALL
This mode imparts a reflection and spread which will make you feel as if you are in a large concert hall.

CLUB
Like a jazz club, this mode provides an exciting and intimate atmosphere. It simulates the sound field of a relatively small room having a low ceiling and hard reflective surfaces, for a "live" sound with enhanced presence to bring the performers up close.

LIVE
Primarily for vocal pieces, this mode adds gloss to the vocals and you'll feel as though you were hearing a live stage performance.

THEATER
You can clearly perceive the directions and source of the movie. Real ambience of sound can also be recreated naturally using this mode.
THEATER mode can be used with stereo sources not encoded with Dolby Surround.

Note
When using Dolby Surround encoded materials, select "SURROUND".

SIMULATED (SIM SURR)
Choose this mode if little or no sound will be heard from the surround speakers.
You can feel as if you were in a more expanded space adding to the actual sound from the source.
This mode also adds effect to monaural sources by outputting sound from surround speakers.

1 Turn [INPUT SELECTOR] to select and start the desired source.

2 Turn the sound mode selector to select "SFC".

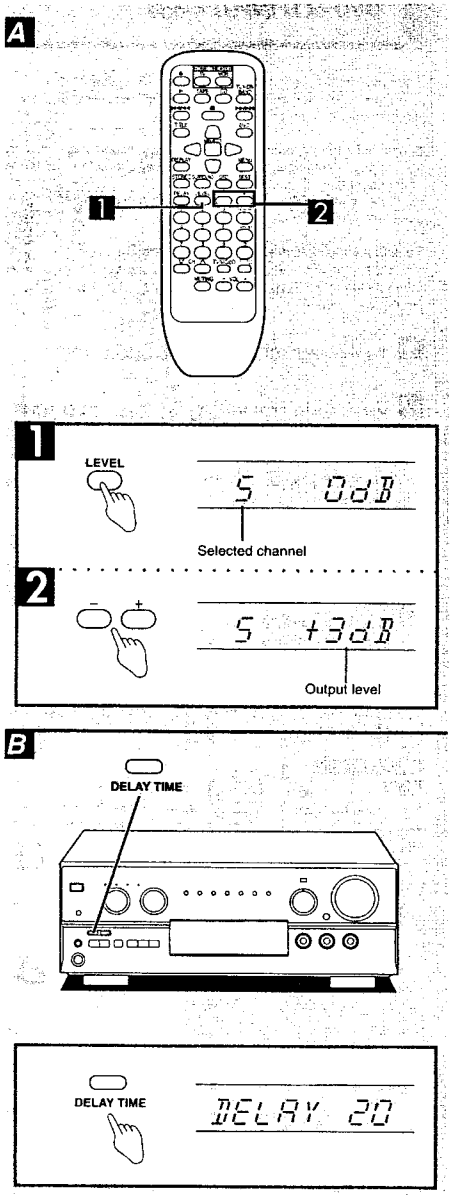
3 Turn [MODE] to select the desired SFC mode.

Note
The SFC mode can also be selected by directly turning [MODE] in step 2 instead of selecting "SFC".

For your reference
You can set the SFC mode for each source.
Each source will retain the selected mode.

To turn off the SFC function
Turn the sound mode selector (ⓐ) to select "STEREO".

Note
Ensure the front speakers are connected to the A terminals when you use SFC. The SFC modes cannot be turned ob if "SPEAKERS B" is selected.



Adjusting field of sound

With this unit, you can adjust speaker volume.
Adjust the field of sound while listening to a source.

To adjust the volume of the center and surround speakers A

by remote control only

1 Press [LEVEL] to select the center or surround speakers.

Note
You can adjust the center speaker volume only in the theater mode.

2 Press [+] or [–] to adjust the output level.

To adjust the delay time B

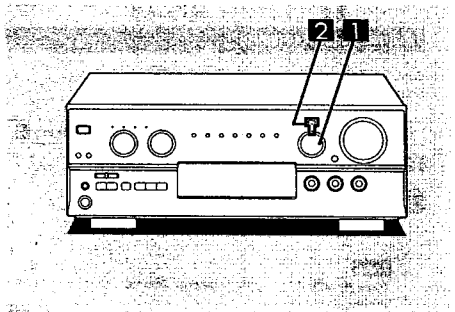
Press [DELAY TIME] to set the time.
When the button is pressed, the current delay time is displayed.
Each time the button is pressed, the delay time will change.

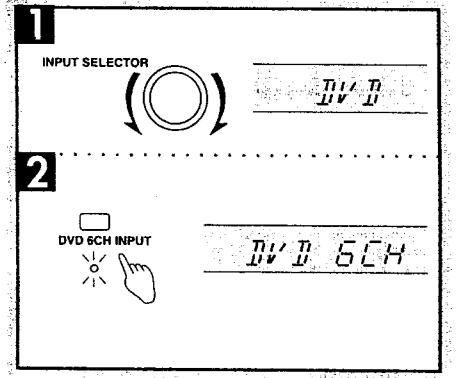
The delay time increments are different depending on the SFC mode.
Select a delay time setting to accommodate to your individual needs.

SFC modes	Available delay time setting (ms)
HALL	20, 25, 30, ***40***, 50
CLUB	0, ***15***, 20, 25, 30
LIVE	15, 20, 30, 40, ***50***
THEATER	15, ***20***, 25, 30, 40
SIMULATED	***15***, 20, 25, 30, 40

The figures in bold italics are the factory settings.

DVD 6CH INPUT Mode





This receiver can playback 6 channel discrete sound.
It has terminals for connecting to a component with 6 channel discrete output, such as a DVD player.

6 channel discrete output makes playback sound more real by adding depth, movement, position and other characteristics to the field of sound.
It will make you feel as if you were at the movie theater when in your own home.

To enjoy 6 channel discrete output sound
You have to connect a DVD player, Digital Surround Processor or other component that has 6 channel discrete output capabilities.

1 Turn [INPUT SELECTOR] to select "DVD".

2 Press [DVD 6CH INPUT] to select "DVD 6CH".
Changes as follows, each time the button is pressed.
DVD 6CH ⇄ DVD (2CH)

The "DVD 6CH INPUT" indicator lights when "DVD 6CH" is selected.

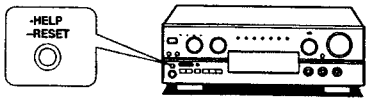
If you press this button while another source (CD, PHONO, etc.) is selected, the receiver switches the source to DVD and engages the DVD 6CH INPUT mode.

3 Start the desired source.
Follow your equipment's operating instructions.

Note
You cannot select Dolby Pro Logic or any of the SFC modes while in the DVD 6CH INPUT mode.

Note
Ensure the front speakers are connected to the A terminals when you use DVD 6CH INPUT mode. The DVD 6CH INPUT mode cannot be turned on if "SPEAKERS B" is selected.

About the HELP function

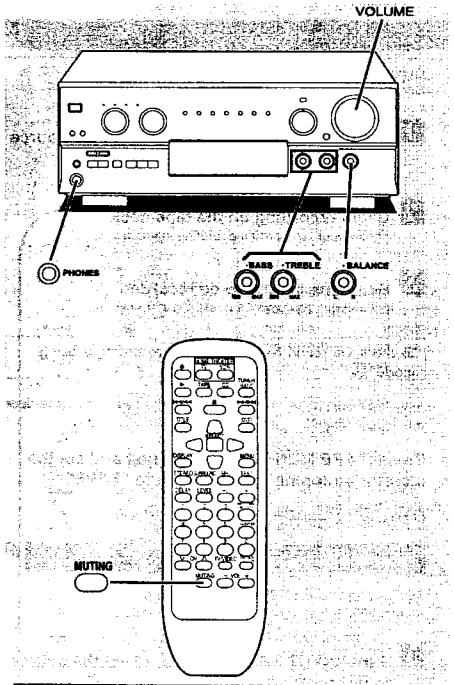


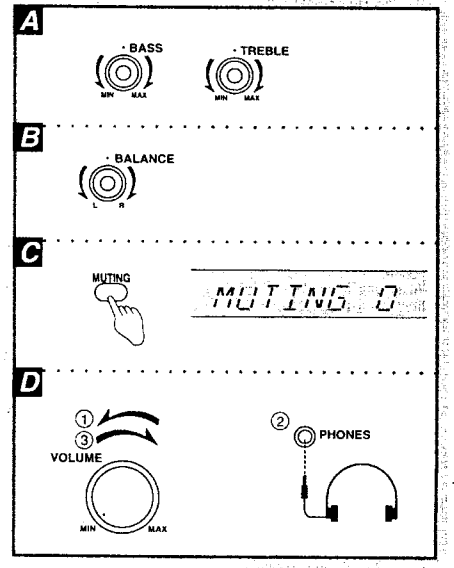
If you make a mistake in operation or if sound output stops due to some operation which was performed, the HELP function displays information which can be useful for indicating the method by which this condition can be remedied.
If "ERROR" or scrolling characters (for instance, "SPEAKER OFF NOW") appear on the display during operation, carry out the following operation.

Press [HELP/–RESET].
The method for remedying this situation will be displayed.

For your reference
If the above button is pressed for 2 seconds or more until "RESET" appears on the display, the operation settings for the unit will be initialized to the settings made at the time of shipment. However, any broadcasting stations which have been preset into memory will not be erased at this time.

Other Functions





To adjust the tone quality A

Turn [BASS] to adjust the low frequency sound. Turn [TREBLE] to adjust the high frequency sound.

To adjust the sound balance B

Turn [BALANCE] to adjust the left/right sound balance.

To mute the sound level C

by remote control only

Press [MUTING].
The message "MUTING ON NOW" runs repeatedly from right to left across the display as long as the muting function is on.

Press once again to return to the previous volume level.

Note
When the receiver is turned off, the muting operation will be automatically cancelled.

To listen through headphones D

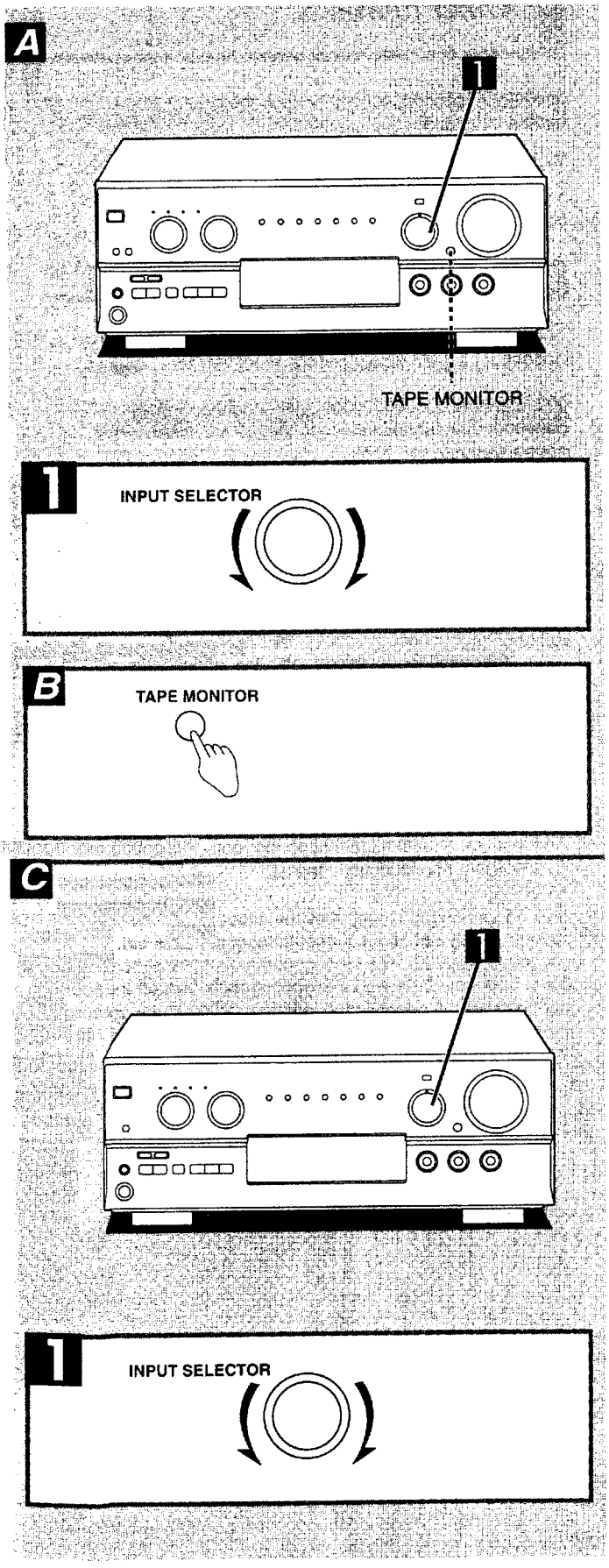
① Reduce the volume level.
② Connect the headphones.
Plug type: 6.3 mm (1/4 in.) stereo
③ Adjust the volume level.

If you do not want sound from the speakers, press [SPEAKERS] button(s) and check the speaker indicator(s) goes out.

If a subwoofer is connected to your system, turn off the power to it (or the subwoofer amp you are using) or lower the volume to the minimum level.

Note
Avoid listening for prolonged periods of time to prevent hearing damage.

Making A Recording



Recording on a tape deck A

Before recording, prepare the tape deck for recording.
See the tape deck's operating instructions for details.

1 Turn [INPUT SELECTOR] to select the source to be recorded.
Any source can be selected except TAPE.

2 Begin recording on the tape deck.
Follow your tape deck's operating instructions.

3 Begin the source to be recorded.
Follow your equipment's operating instructions.

To check the sound recorded while a recording is being made B

It is possible to check the sound being recorded if your tape deck is a 3 head system.

Press [TAPE MONITOR] on this unit and set the monitor button on the tape deck to "TAPE".

Press [TAPE MONITOR] once again to turn it off.

Recording on a VCR C

Before recording, prepare VCR for recording.
See the VCR's operating instructions for details.

1 Turn [INPUT SELECTOR] to select the source to be recorded.
Any source can be selected except VCR and TAPE.

Note
Recording from the tape deck is not possible.

2 Begin recording on the VCR.
Follow your VCR's operating instructions.

3 Begin the source to be recorded.
Follow your equipment's operating instructions.

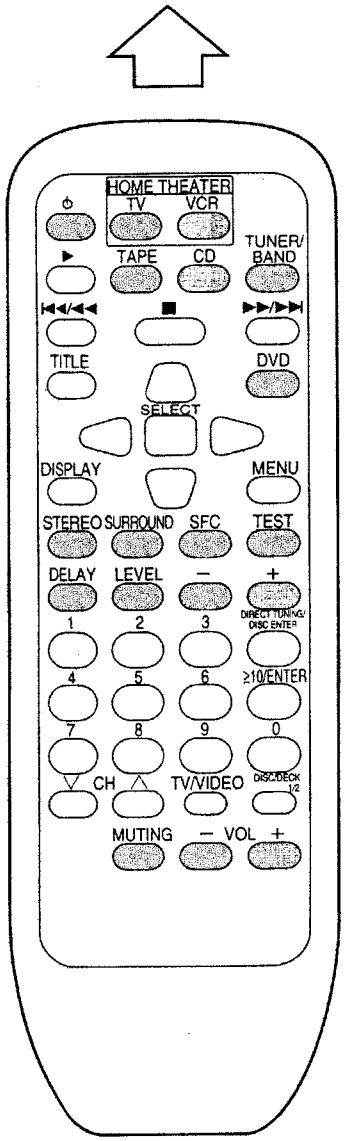
Note
When you select DVD 6CH INPUT mode, only sound from the front left and right speakers is recorded.

To record all 6 channels
Set the playback mode on your DVD player or decoder to 2 channel (stereo) mode.

For details, see the instruction manual that came with the connected equipment.

Using the Remote Control

Point the remote control toward the receiver



Basic operations

To turn the unit ON/OFF	TUNER/ BAND → ⏻ Once the unit has been set to ON, it can be turned ON and OFF simply by pressing [⏻]. **Note** After turning the TV, VCR or DVD player ON or OFF, always press TUNER/BAND before pressing [⏻] when turning the receiver ON and OFF.
To select an input source and switch the remote control transmitter to each operation mode	TAPE VCR TV DVD CD TUNER/ BAND **Note** PHONO can not be selected with this remote control.
To turn off the Dolby Pro Logic and SFC mode	STEREO
To turn on the Dolby Pro Logic and select the SURROUND mode	SURROUND **Note** 3 STEREO can not be selected with this remote control.
To turn on the SFC function and select the desired mode	SFC Changes as follows each time the button is pressed. HALL → CLUB → LIVE → THEATER SIM SURR (SIMULATED)
To output a test signal	When the SURROUND or 3 STEREO mode is ON TEST Press once more to stop the signal.
To adjust the output level of the center speaker and/or surround speakers	When the SURROUND, 3 STEREO or SFC mode is ON LEVEL → – + ① Select center (C) or surround (S). ② Adjust output level. • When the SURROUND mode is ON and the center mode is on PHANTOM, you cannot select the center channel. • When SFC is used, the center mode can be changed only if THEATER is on. • When the 3 STEREO mode is ON, you cannot select the surround channel.
To adjust the delay time	When the SURROUND or SFC mode is ON DELAY → – +
To mute the sound level	MUTING The message "MUTING ON NOW" runs repeatedly from right to left across the display as long as the muting function is on. Press once more to return to the original volume.
To adjust the volume level	– VOL +

■ Operation Checks

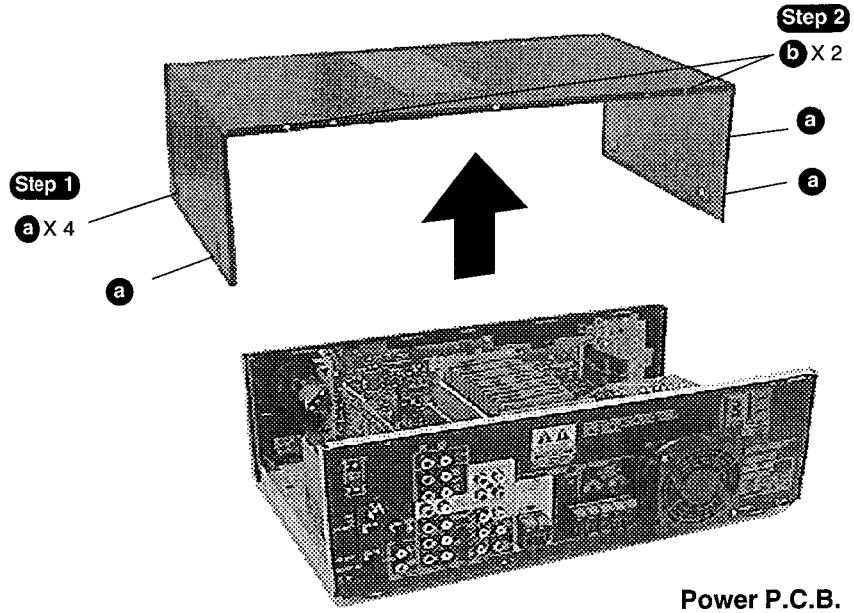
"ATTENTION SERVICER" Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.**
3. **Select items from the following index when checks or replacement are required.**

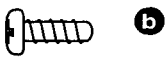
• Contents

	page
• Checking Procedure For Each Major P.C.B.	12 ~ 14
• Main Component Replacement Procedures	14 ~ 15

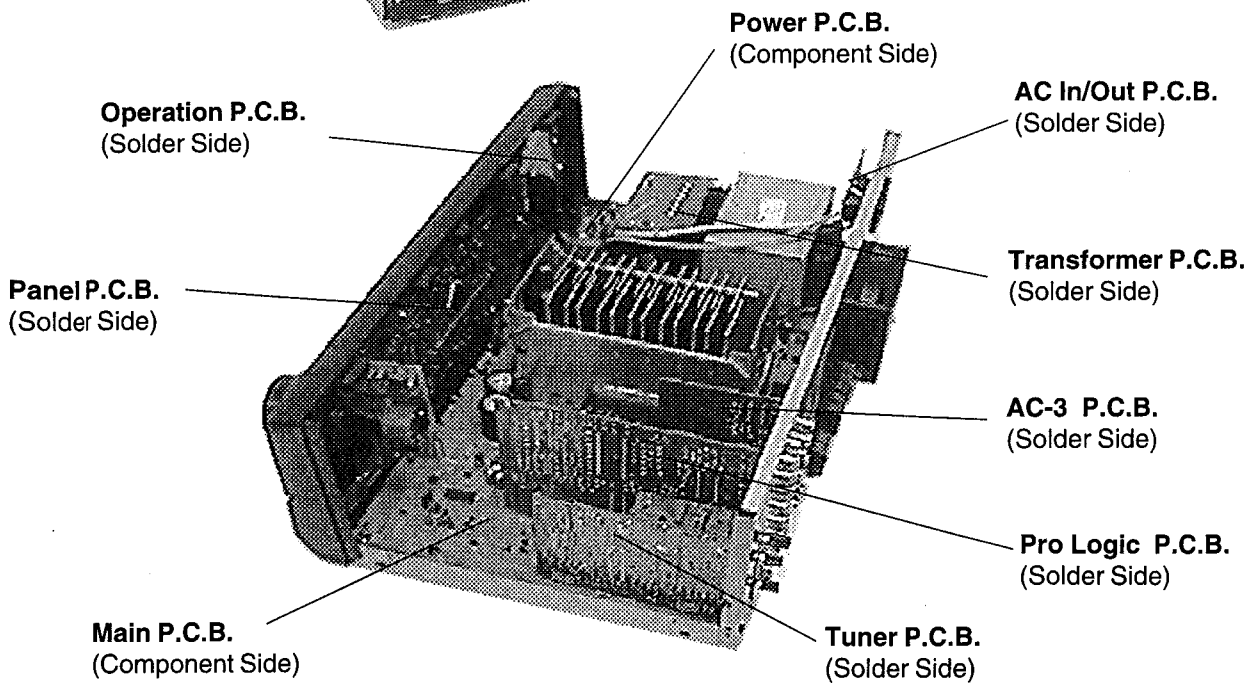
■ Checking Procedure For Each Major P.C.B.



[SNE2129-1] (Black)

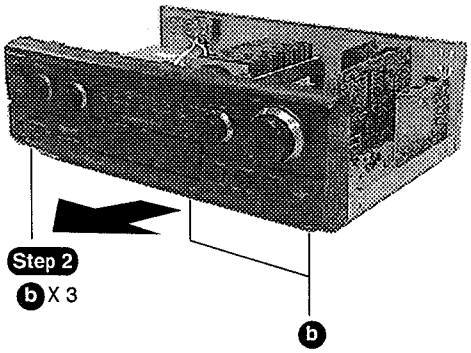


[XTBS3+8JFZ1] (Black)



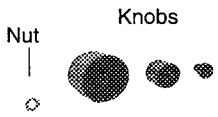
To remove Front Panel and check Panel P.C.B. , Operation P.C.B. and Headphone Jack P.C.B.

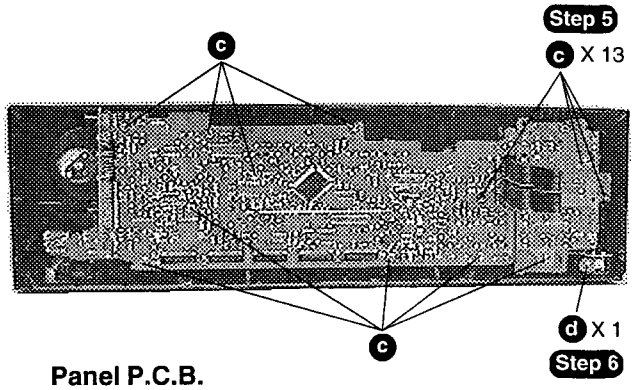
Step 1
Remove the top cabinet.

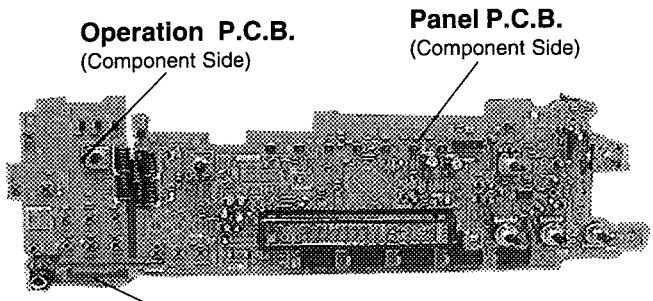


Step 3
Remove the Front Panel in the direction of arrow.

Step 4
Remove all Knobs and Nuts from Front Panel.



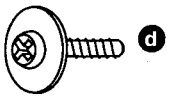




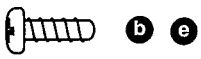
Step 7
Pull out the Headphone Jack P.C.B.

Headphone Jack P.C.B.
(Component Side)

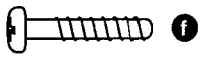
[XTBS26+10J]



[RHD26016]



[XTBS3+8JFZ1] (Black)
[XTB3+8FFZ] (Black)



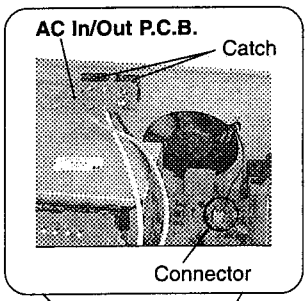
[XTB3+20JFZ] (Black)

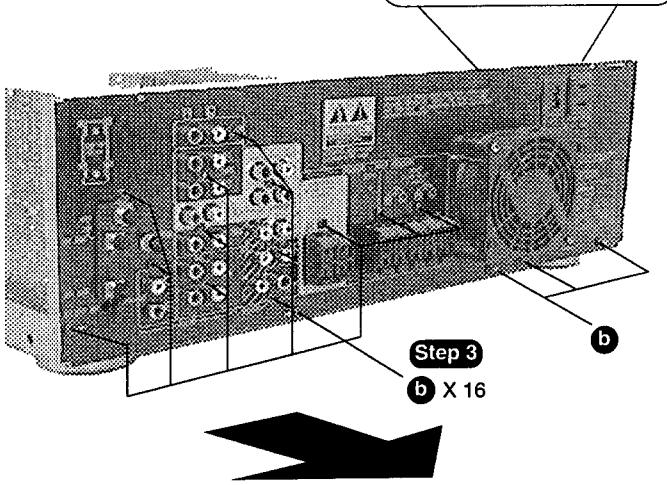
To remove Rear Panel and check Main P.C.B. and Power P.C.B.

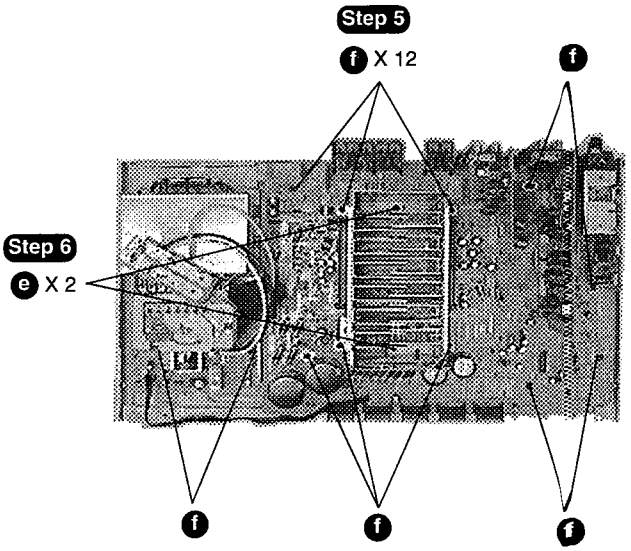
Step 1
Remove the top cabinet.

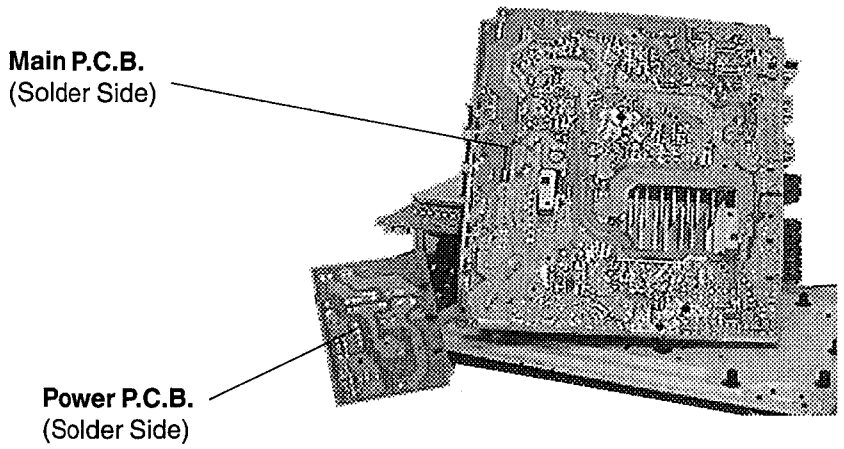
Step 2
Remove the front panel.

Step 4
Release the AC In/Out P.C.B. catches and the fan motor connector, then pull out the rear panel in the direction of arrow.









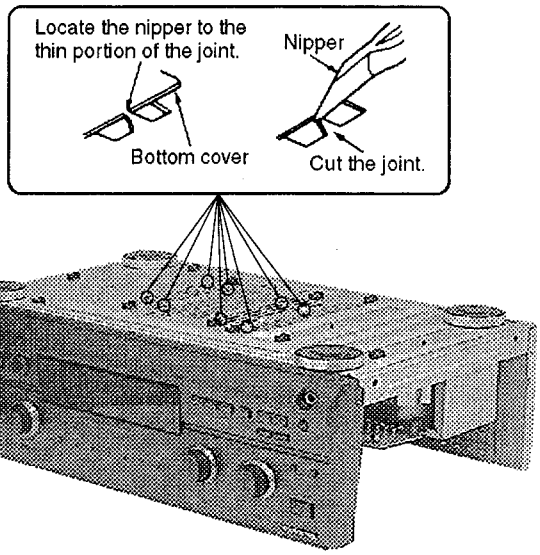
Step 7
Lift the Main P.C.B. in the direction of arrow .

■ Main Component Replacement Procedures

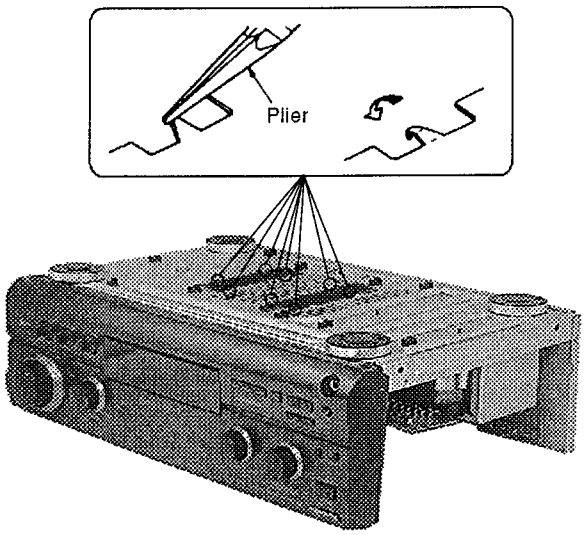
1. Replacement of the Power IC and Regulator Transistor

Step 1
Remove the top cabinet.

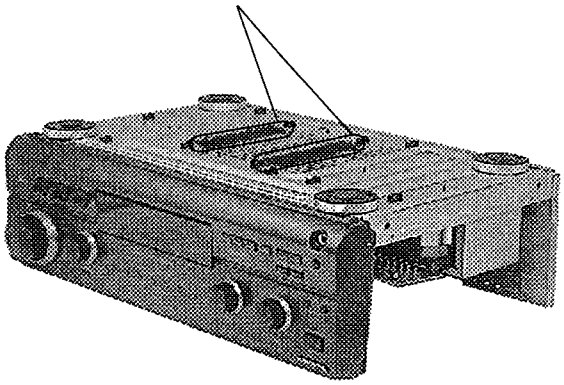
Step 2 Cut the joints as shown below. (8 joints)



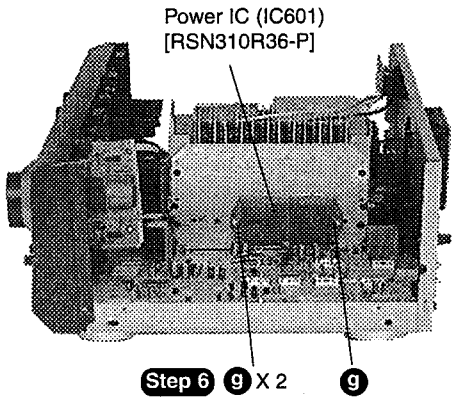
Step 3 Fold the joints. (8 joints)

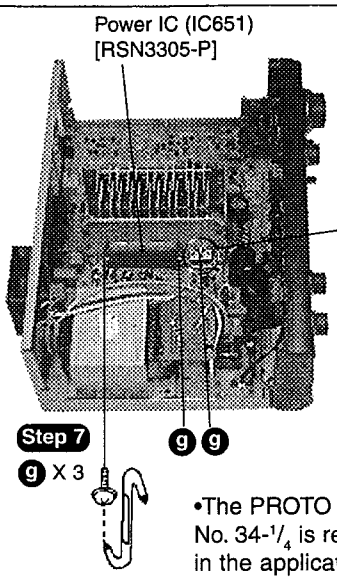


Step 4
Desolder the terminals of Power IC and Regulator Transistor.



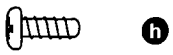
Step 5
Remove all screws (ⓑ) for the Tuner, AC-3 and Pro Logic P.C.B.'s at the Rear Panel and pull out these P.C.B.'s from the Main P.C.B.



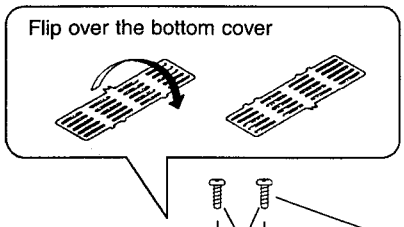


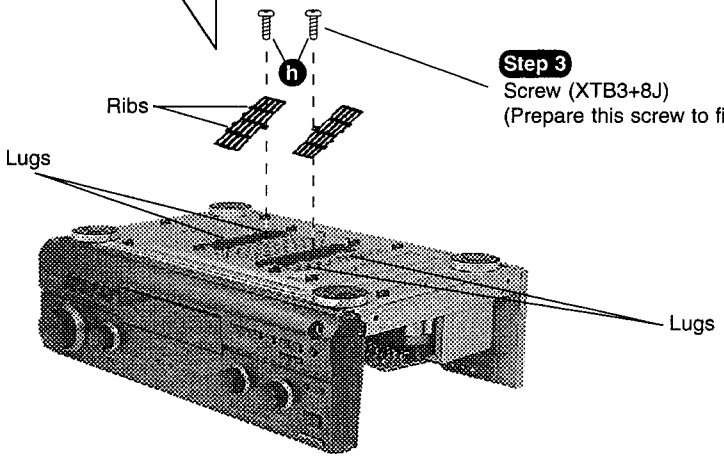
•The PROTO Offset Screwdriver No. 34-$^{1}/_{4}$ is recommended for use in the application above.

Installation of the bottom cover after replacement



Step 1





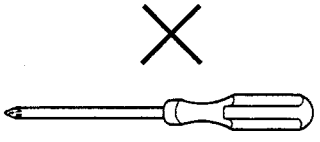
Step 3
Screw (XTB3+8J)
(Prepare this screw to fix the bottom cover.)

Step 2
Align the ribs of bottom cover into the lugs.

CAUTION

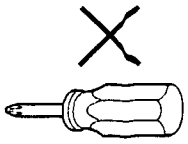
1. After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002/SZZ0L15) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws (ⓖ)after replacing the power IC and regulator transistor. Otherwise, the heat radiation works little.
3. When installing or removing the power IC or transistor holder, be sure to use an offset screwdriver.

- A long straight screwdriver cannot be used for removing or mounting the screws since its long grip interferes with the neighbouring P.C.B. (See Fig.1)
- A short straight screwdriver may be used for removal, but cannot be used for mounting because the limited space in the unit will not allow sufficient tightening torque.(See Fig.2)



A long straight screwdriver

Fig.1



A short straight screwdriver

Fig.2

- Insufficient tightening will cause poor heat dissipation from the power IC and regulator transistor and,in the worst case, may lead to their thermal breakdown.

■ Terminal Functions Of ICs

• IC901 (M38B57M6120F) System Microprocessor

Pin No.	Mark	I/O	Function
1~2	KEY2~KEY1	I	Key Input 1 ~ 2
3	THERM/OVLD	I	Thermal/Over load input
4	KEY4	I	Key Input 4
5	OVERLOAD2	I	Over load input 2
6	FMST	I	Stereo signal detect terminal
7	WAKE	-	Wake up timer LED
8	RDS_DI	-	Control of RDS IC (Not used,open)
9	REMOTE	I	Remote control terminal
10	RESET	I	Reset detect terminal
11	RDS_CK	-	Control of RDS IC (CK) clock signal
12	RDS_DT	-	Control of RDS IC (DT) data signal
13	GND	-	GND terminal
14	XIN	I	Crystal oscillator terminal (4 MHz)
15	XOUT	O	Crystal oscillator terminal (4 MHz)
16	VDD (+5V)	-	Power supply terminal +5V
17	LED_CK	O	LED driver IC (CK) clock signal
18	LED_DATA	O	LED driver IC (DT) data signal
19	SFC1	I	SFC mode encoder input 1
20	SFC2	I	SFC mode encoder input 2
21	SEL1	I	Selector encoder for input 1
22	HOLD	I	Blackout detection terminal
23	SEL2	I	Selector encoder for input 2
24	TV_VCR2	I	TV-VCR2 control input
25	RLY	-	Relay control output
26	LOUDNESS	O	Loudness control output
27	6CH_ST	O	6 ch sw control output (ST)
28	VEE	-	Power supply for FL driver
29	S/C_SP	O	Surround/Center speaker control output

Pin No.	Mark	I/O	Function
30	SP_B	O	Speaker B control output
31	SP_A	O	Speaker A control output
32	AF_MUTE	O	Muting control output
33~48	SEG16~SEG1	O	FL segment signal output
49~58	DEG1~DEG10	O	FL digit signal output
59	INIT_IN	I	Diode input initial settings
60	VOL_DOWN	O	Volume control output (Down)
61	VOL_UP	O	Volume control output (Up)
62	REC_MUTE	O	REC Mute control
63	IF_DATA	I	Serial data signal
64	LIMITTER	O	Power limitter control output
65	TNR_CE	O	Tuner control (CE) chip enable signal
66	SEL/TNR_CK	O	Selector/Tuner (CK) clock signal
67	SEL/TNR_DT	O	Selector/Tuner (DT) data signal
68	SEL_ST	O	Selector control terminal
69	MMD	O	MMD control terminal
70	SURR/OSD_CK	O	Surround control (CK) clock signal
71	SURR/OSD_DT	O	Surround control (DT) data signal
72	SURR_CE	O	Surround control (CE) chip enable signal
73	AVSS	-	GND for A-D converter
74	VREF	-	Reference voltage for A-D converter
75	SD	I	SD signal detect input
76	SUR1	I	Encoder of surround mode selector input1
77	HELP_LED/RDS_CE	O	Help LED control output
78	SUR2	I	Encoder of surround mode selector input2
79	VIDEO_B	O	Video selector control output B
80	VIDEO_A	O	Video selector control output A

■ Type Illustration of ICs, Transistors and Diodes

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 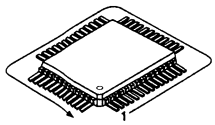 </td>
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 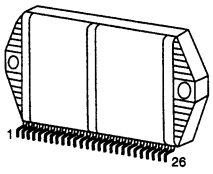 </td>
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 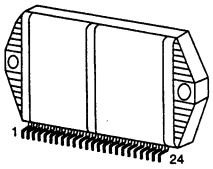 </td>
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 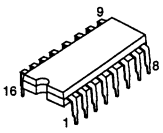 </td>
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 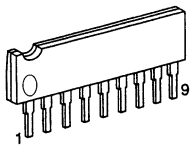 </td>
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 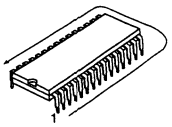 </td>
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 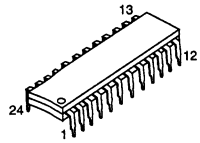 </td>
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 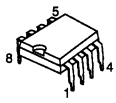 </td>
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 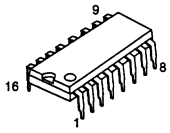 </td>
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 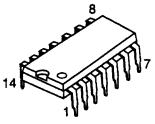 </td>
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 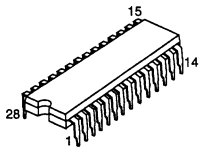 </td>
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 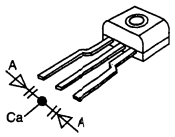 </td>
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 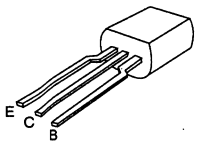 </td>
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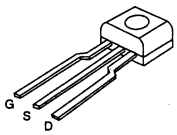
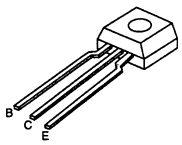
  </td>
<td colspan="2">  </td>
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2SC3311ARTA
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 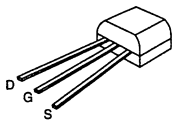 </td>
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 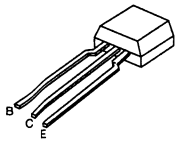
RVTDTA113ZST
RVTDTA114EST
RVTDTA143XST
RVTDTC114EST
RVTDTC114TST
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 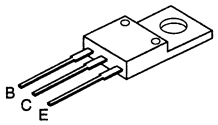 </td>
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 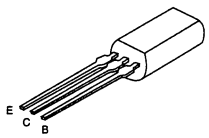 </td>
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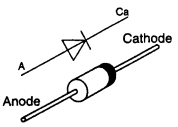
RK306LFU1
  </td>
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 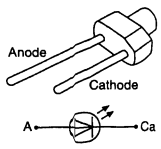 </td>
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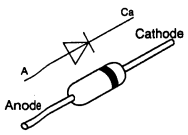
<td colspan="2"> 
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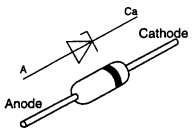
RVD1SS133TA
MA700ATA
MA167TA
1SR35200TB</td>
<td colspan="2"> 
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MTZJ11CTA
MTZJ15CTA
MTZJ18CTA
MTZJ27DTA
MTZJ3R9ATA
MTZJ4R3BTA</td>
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MTZJ5R1BTA
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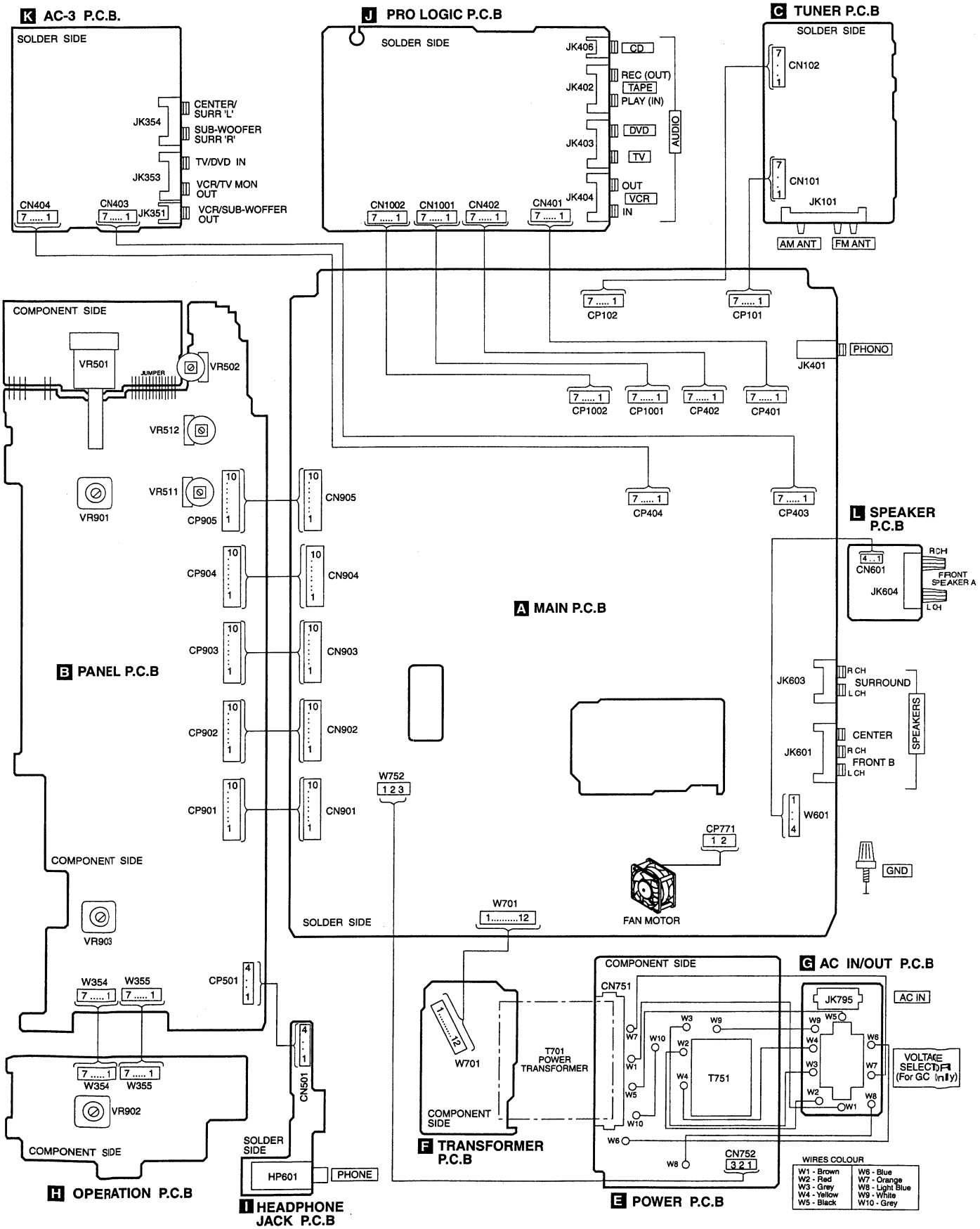
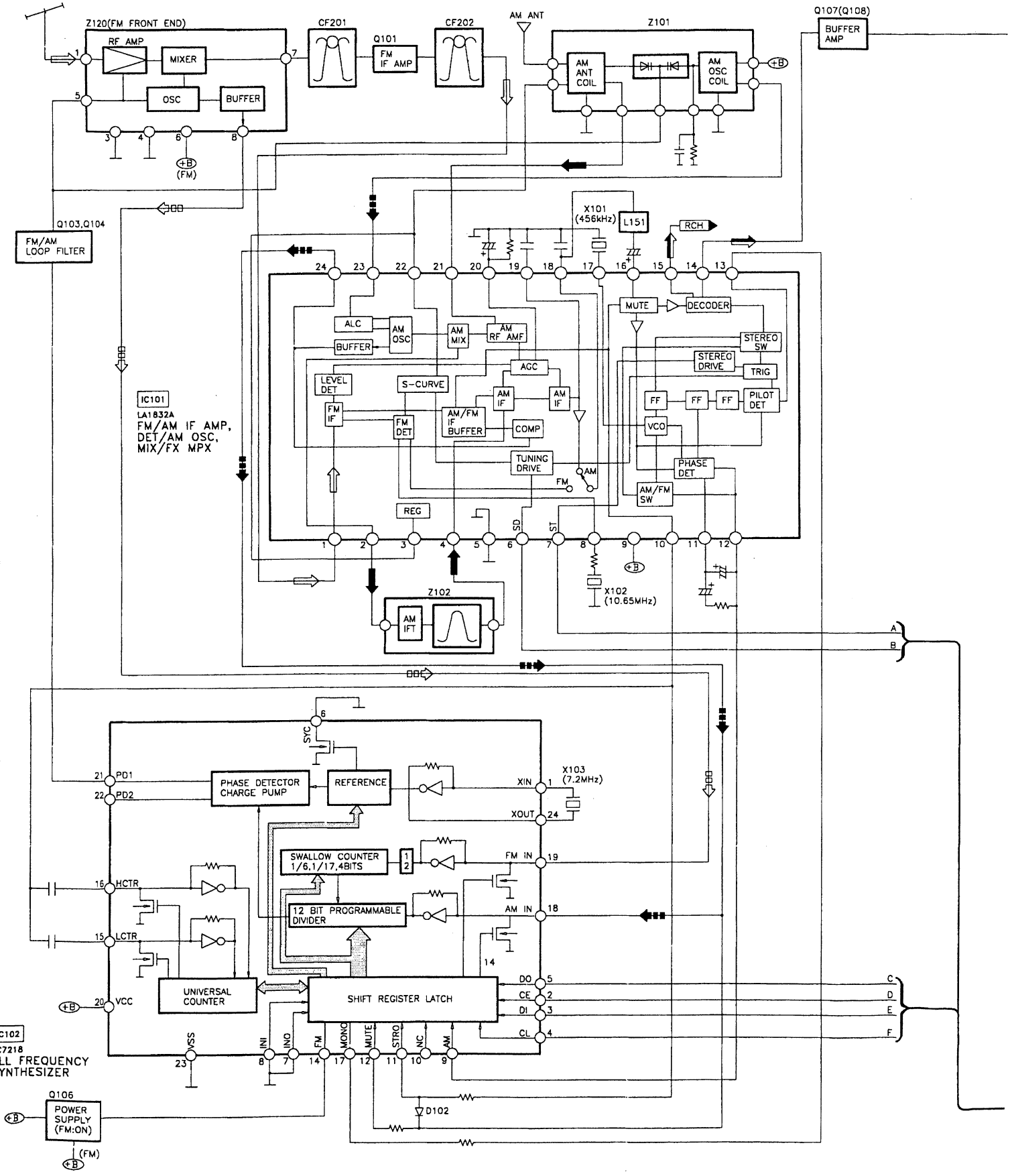
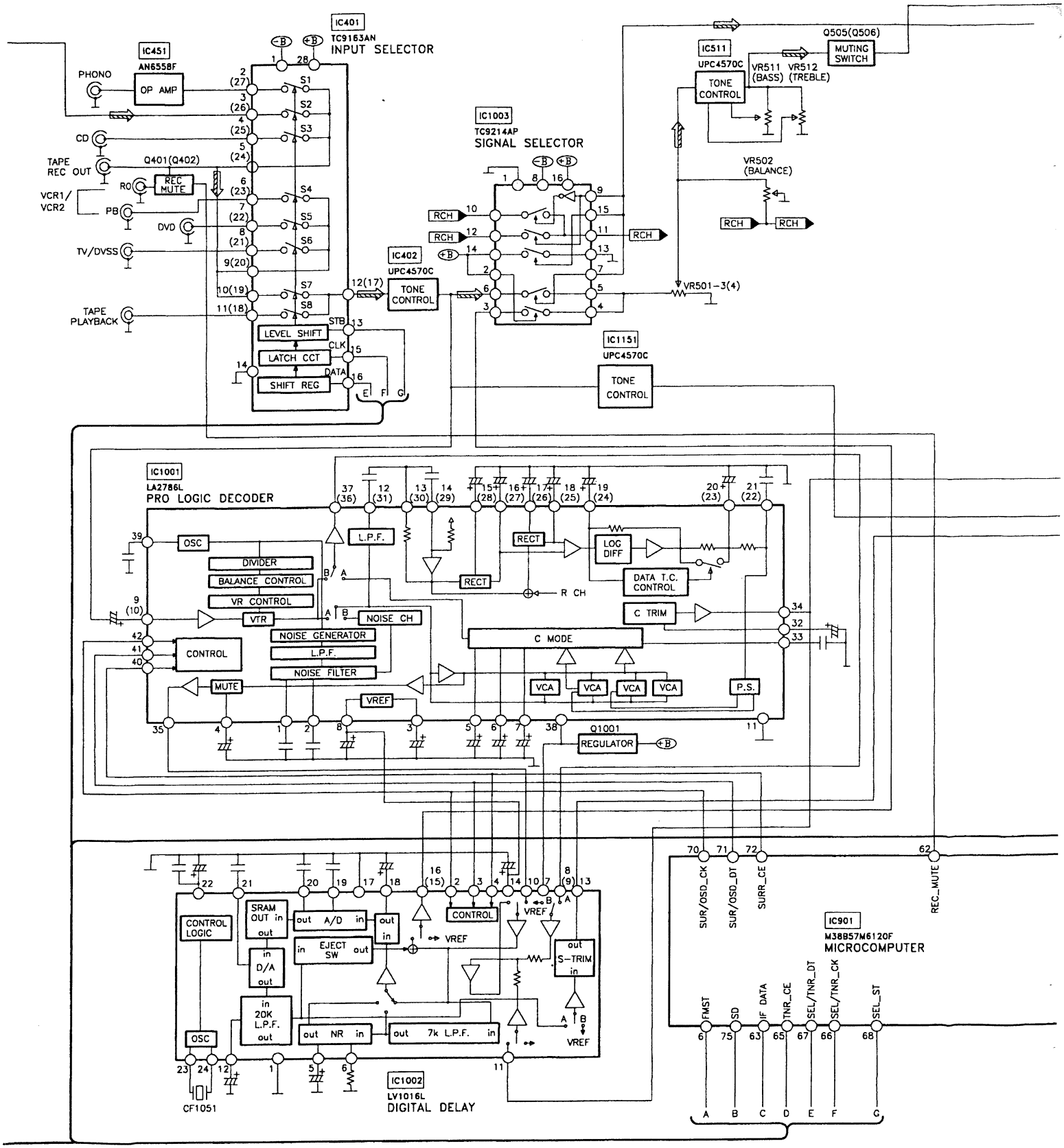
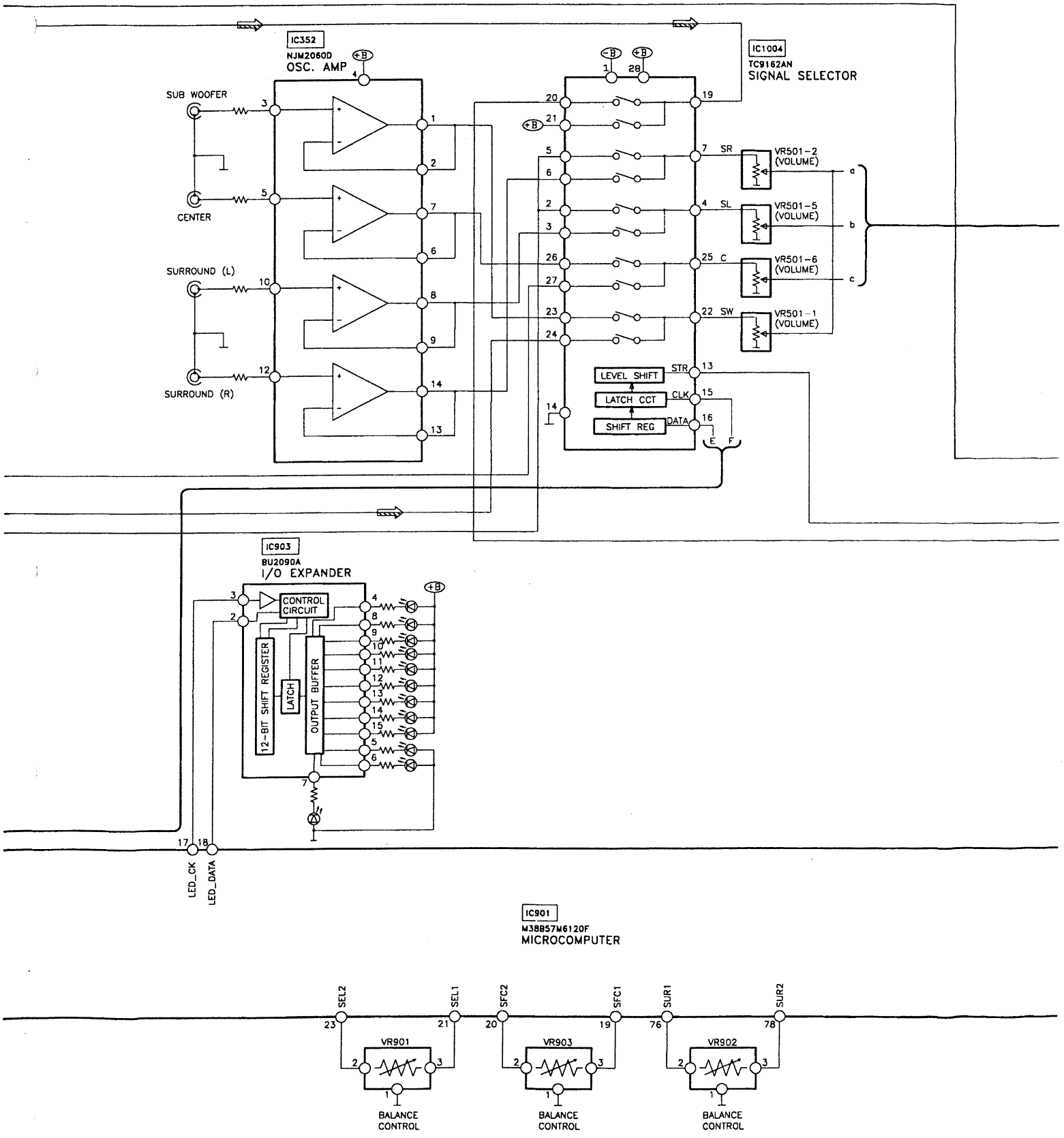
■ Wiring Connection Diagram

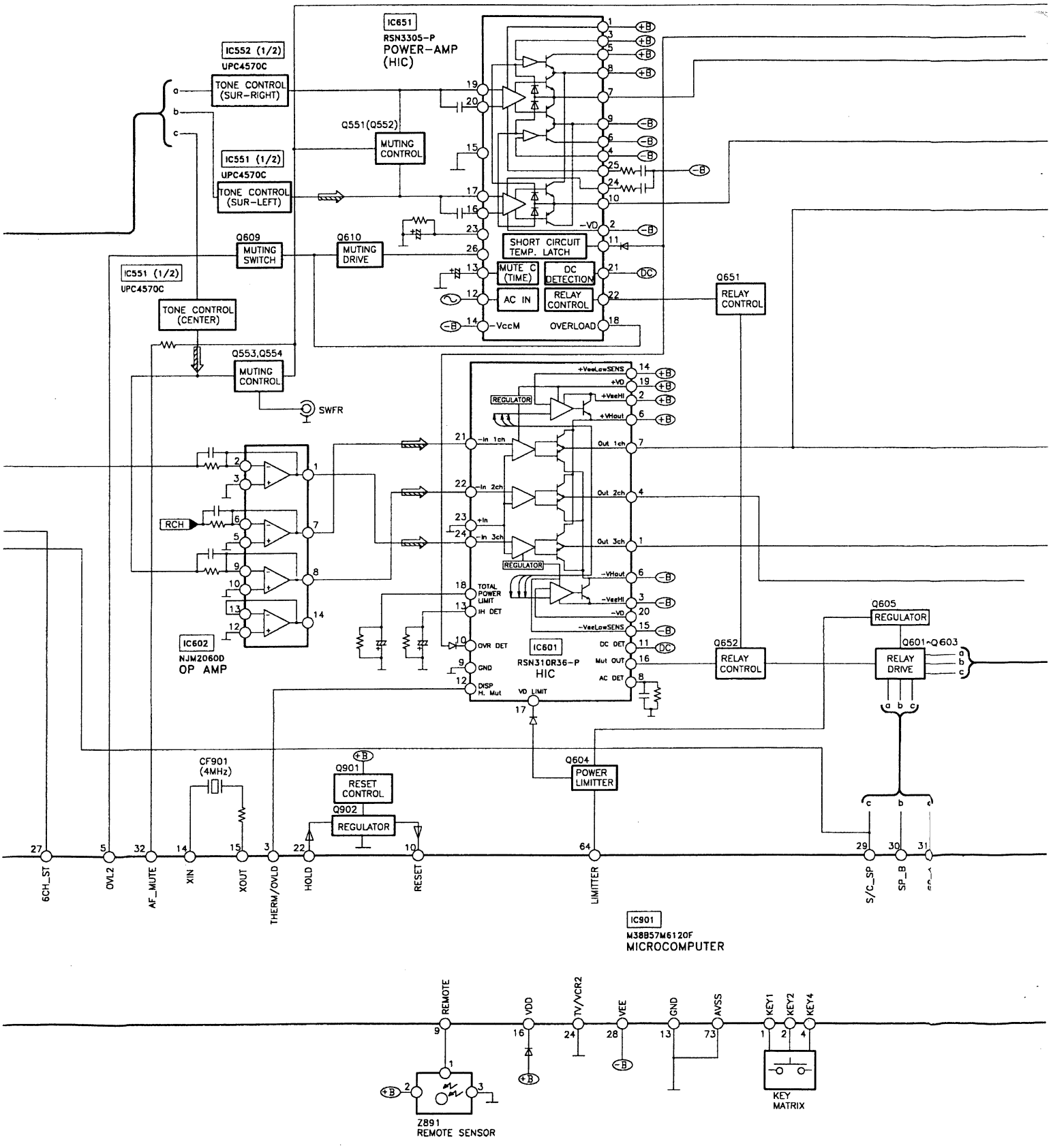


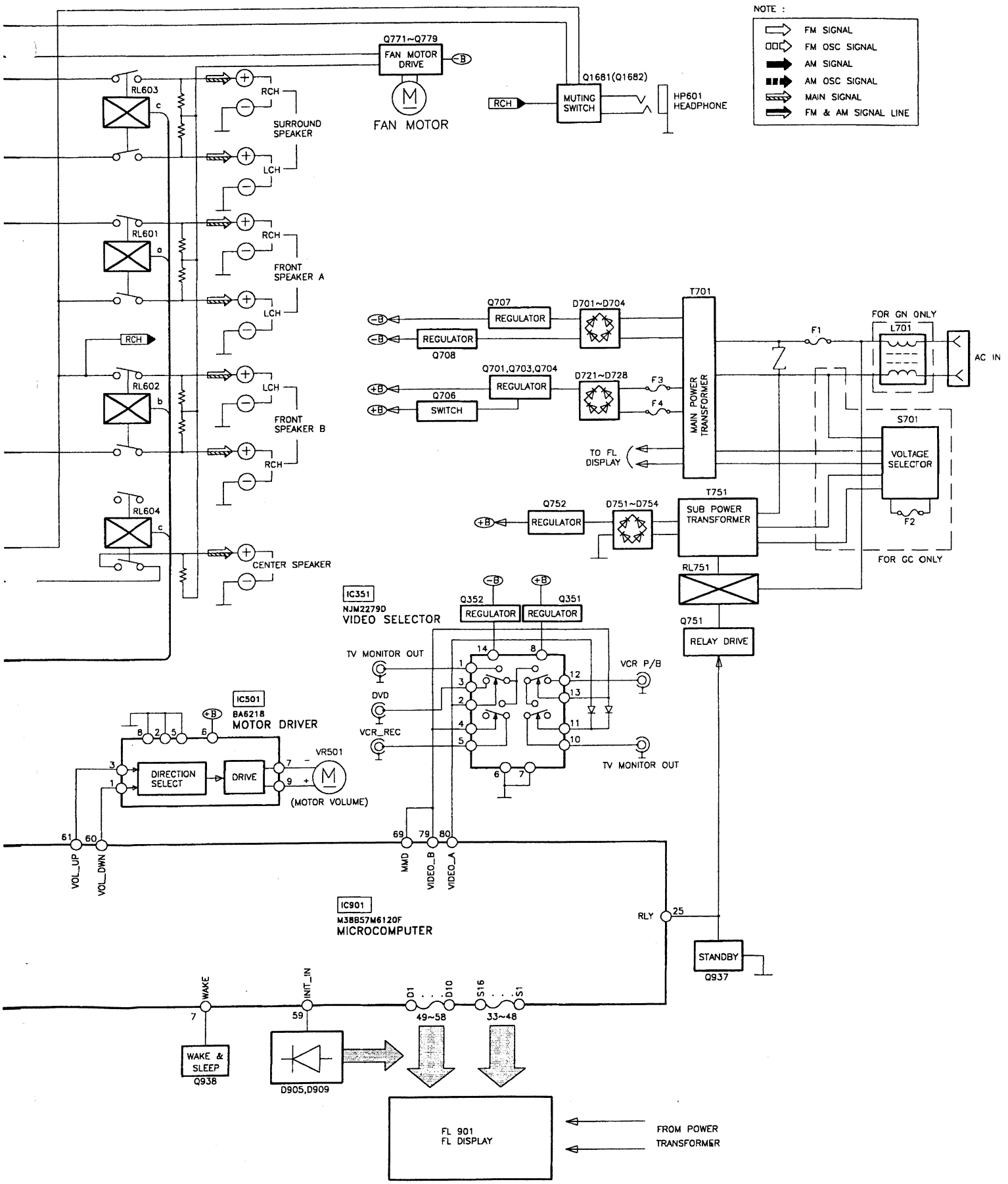
■ Block Diagram




IC401
TC9163AN
INPUT SELECTOR
IC451
AN6558F
OP AMP
PHONO
CD
TAPE REC OUT
Q401(Q402)
REC MUTE
VCR1/ VCR2
PB
DVD
TV/DVSS
TAPE PLAYBACK
LEVEL SHIFT
LATCH CCT
SHIFT REG
IC1003
TC9214AP
SIGNAL SELECTOR
IC402
UPC4570C
TONE CONTROL
IC511
UPC4570C
TONE CONTROL
VR511 VR512
(BASS) (TREBLE)
Q505(Q506)
MUTING SWITCH
VR502
(BALANCE)
VR501-3(4)
IC1151
UPC4570C
TONE CONTROL
IC1001
LA2786L
PRO LOGIC DECODER
OSC
DIVIDER
BALANCE CONTROL
VR CONTROL
VTR
NOISE GENERATOR
L.P.F.
NOISE FILTER
NOISE CH
CONTROL
MUTE
VREF
L.P.F.
RECT
LOG DIFF
DATA T.C. CONTROL
R CH
C TRIM
C MODE
VCA
P.S.
Q1001
REGULATOR
IC1002
LV1016L
DIGITAL DELAY
CONTROL LOGIC
SRAM OUT in
A/D
D/A
EJECT SW
20K L.P.F.
NR
7k L.P.F.
S-TRIM
CF1051
IC901
M38B57M6120F
MICROCOMPUTER
SUR/OSD_CK
SUR/OSD_DT
SURR_CE
REC_MUTE
FMST
SD
IF DATA
TNR_CE
SEL/TNR_DT
SEL/TNR_CK
SEL_ST


IC352
NJM2060D
OSC. AMP
+B
SUB WOOFER
CENTER
SURROUND (L)
SURROUND (R)
IC1004
TC9162AN
SIGNAL SELECTOR
-B
+B
SR
SL
C
SW
VR501-2 (VOLUME)
VR501-5 (VOLUME)
VR501-6 (VOLUME)
VR501-1 (VOLUME)
a
b
c
LEVEL SHIFT
LATCH CCT
SHIFT REG
STR
CLK
DATA
E
F
IC903
BU2090A
I/O EXPANDER
CONTROL CIRCUIT
12-BIT SHIFT REGISTER
LATCH
OUTPUT BUFFER
LED_CK
LED_DATA
IC901
M38B57M6120F
MICROCOMPUTER
SEL2
SEL1
SFC2
SFC1
SUR1
SUR2
VR901
VR903
VR902
BALANCE CONTROL
BALANCE CONTROL
BALANCE CONTROL


IC651
RSN3305-P
POWER-AMP
(HIC)
IC552 (1/2)
UPC4570C
TONE CONTROL
(SUR-RIGHT)
IC551 (1/2)
UPC4570C
TONE CONTROL
(SUR-LEFT)
Q551(Q552)
MUTING
CONTROL
Q609
MUTING
SWITCH
Q610
MUTING
DRIVE
IC551 (1/2)
UPC4570C
TONE CONTROL
(CENTER)
Q553,Q554
MUTING
CONTROL
SWFR
SHORT CIRCUIT
TEMP. LATCH
MUTE C
(TIME)
DC
DETECTION
AC IN
RELAY
CONTROL
-VccM
OVERLOAD
Q651
RELAY
CONTROL
REGULATOR
RCH
IC602
NJM2060D
OP AMP
IC601
RSN310R36-P
HIC
TOTAL
POWER
LIMIT
IH DET
OVR DET
GND
DISP
H. Mut
VD LIMIT
DC DET
Mut OUT
AC DET
Q652
RELAY
CONTROL
Q605
REGULATOR
Q601~Q603
RELAY
DRIVE
CF901
(4MHz)
Q901
RESET
CONTROL
Q902
REGULATOR
Q604
POWER
LIMITTER
6CH_ST
OVL2
AF_MUTE
XIN
XOUT
THERM/OVLD
HOLD
RESET
LIMITTER
S/C_SP
SP_B
IC901
M38B57M6120F
MICROCOMPUTER
REMOTE
VDD
TV/VCR2
VEE
GND
AVSS
KEY1
KEY2
KEY4
Z891
REMOTE SENSOR
KEY
MATRIX


NOTE :
FM SIGNAL
FM OSC SIGNAL
AM SIGNAL
AM OSC SIGNAL
MAIN SIGNAL
FM & AM SIGNAL LINE
Q771~Q779
FAN MOTOR DRIVE
FAN MOTOR
Q1681(Q1682)
MUTING SWITCH
HP601
HEADPHONE
RCH
LCH
RL603
RL601
RL602
RL604
SURROUND SPEAKER
FRONT SPEAKER A
FRONT SPEAKER B
CENTER SPEAKER
Q707
REGULATOR
Q708
D701~D704
Q701,Q703,Q704
Q706
SWITCH
D721~D728
T701
MAIN POWER TRANSFORMER
F1
F3
F4
FOR GN ONLY
L701
AC IN
S701
VOLTAGE SELECTOR
F2
FOR GC ONLY
TO FL DISPLAY
Q752
D751~D754
T751
SUB POWER TRANSFORMER
RL751
Q751
RELAY DRIVE
IC351
NJM2279D
VIDEO SELECTOR
Q352
Q351
TV MONITOR OUT
DVD
VCR_REC
VCR P/B
IC501
BA6218
MOTOR DRIVER
DIRECTION SELECT
DRIVE
VR501
(MOTOR VOLUME)
VOL_UP
VOL_DWN
MMD
VIDEO_B
VIDEO_A
IC901
M38B57M6120F
MICROCOMPUTER
RLY
STANDBY
Q937
WAKE
INIT_IN
D1
D10
S16
S1
49~58
33~48
WAKE & SLEEP
Q938
D905,D909
FL 901
FL DISPLAY
FROM POWER TRANSFORMER

Schematic Diagram

		Page
A	MAIN CIRCUIT	25 ~ 29
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C	TUNER CIRCUIT	40 ~ 41, 48
E	POWER CIRCUIT	38 ~ 39
F	TRANSFORMER CIRCUIT	49
G	AC IN/OUT CIRCUIT	46
H	OPERATION CIRCUIT	38
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J	PRO LOGIC CIRCUIT	34 ~ 36
K	AC-3 CIRCUIT	37, 46
L	SPEAKER CIRCUIT	37, 48

(All schematic diagrams may be modified at any time with the development of new technology)

Note :

- S701 : Voltage Selector switch
- S946 : Power switch
- S948 : Muting switch
- S950 : FM mode switch
- S951 : Band select switch
- S952 : Tunning decrease switch
- S953 : Tunning increase switch
- S954 : Timer switch
- S955 : Memory switch
- S956 : Tuning mode preset switch
- S958 : Help / Reset switch
- S976 : DVD 6Ch switch
- S980 : Speaker A select switch
- S981 : Speaker B select switch
- S985 : Center mode select switch
- S986 : Delay time switch

- VR501 : Volume control
- VR502 : Balance control
- VR511 : Bass control
- VR512 : Treble control
- VR901 : Input selector knob
- VR902 : Dolby Pro-logic select knob
- VR903 : Mode SFC on/off knob

- **Signal line**

: +B Line

: - B Line

: FM/AM Signal Line

: AM Signal Line

: AM OSC Signal Line

: Main Signal Line

: FM Signal Line

: FM OSC Signal Line

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis.
  Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

< >: FM

- **Importance safety notice:**
  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

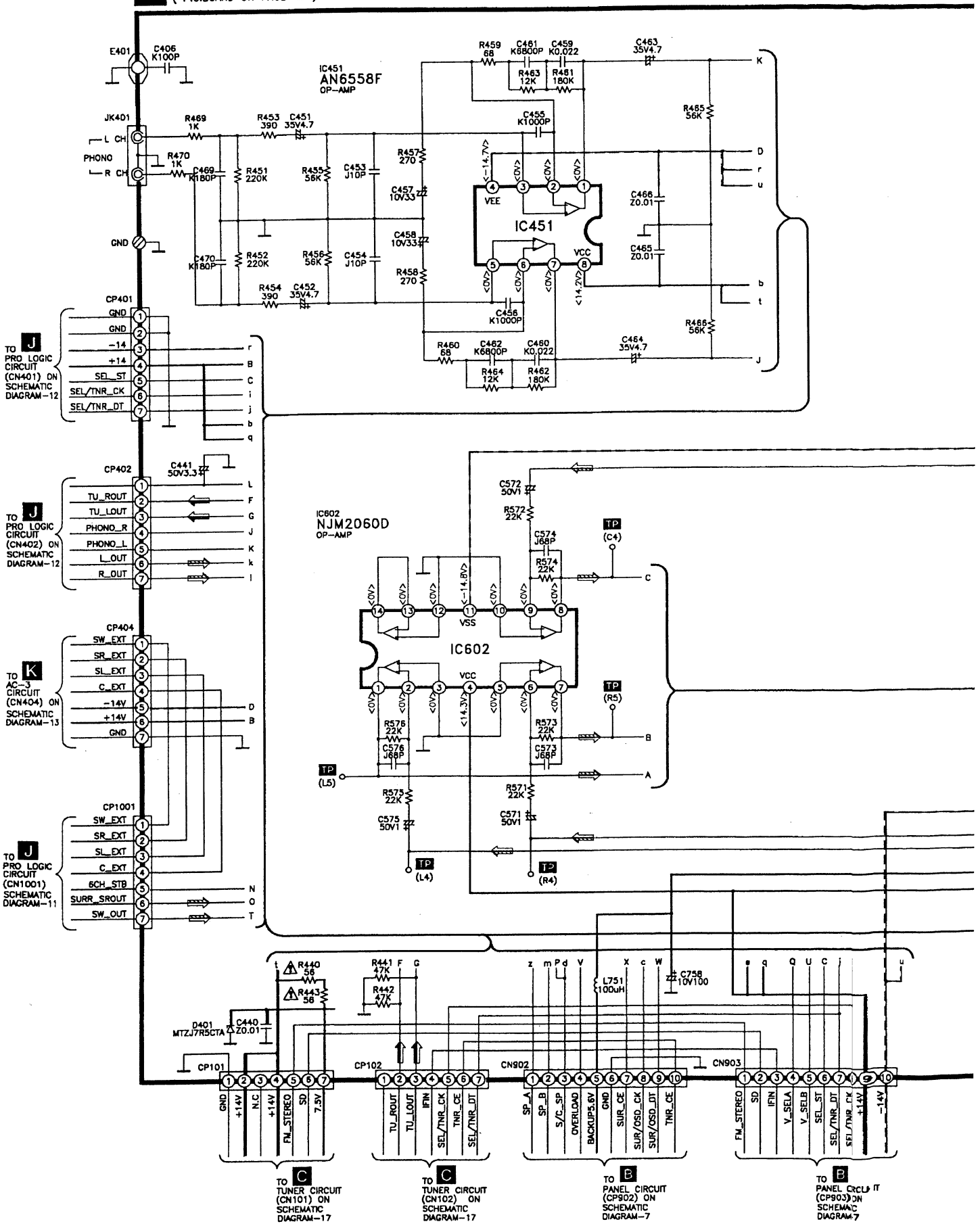
IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.
- Put a conductive mat on the work table.

SCHEMATIC DIAGRAM - 1

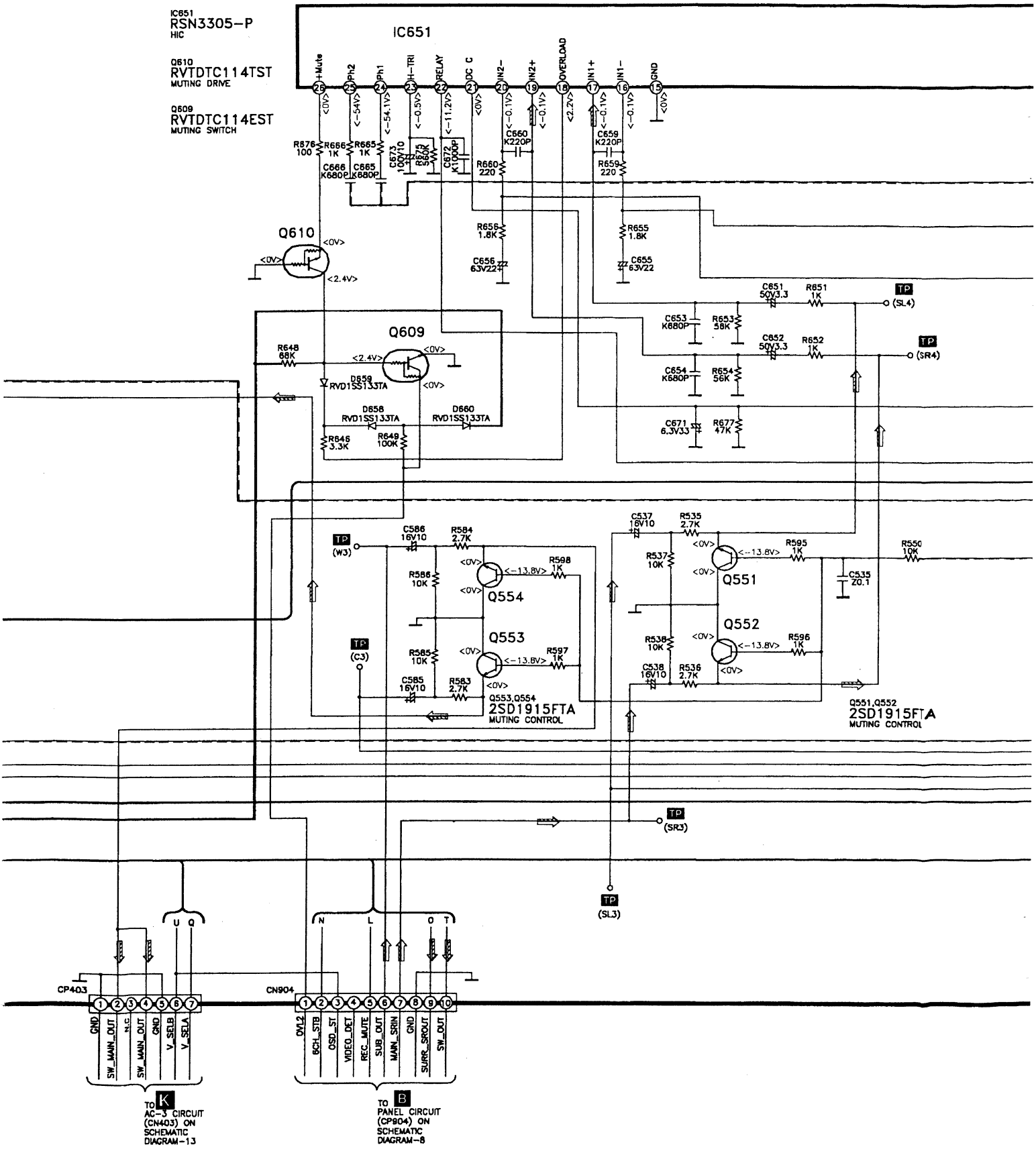
A MAIN CIRCUIT (P.C.BOARD ON PAGE 42)

—— : +B line ⇒ : FM/AM signal line ⇒ : Main signal line



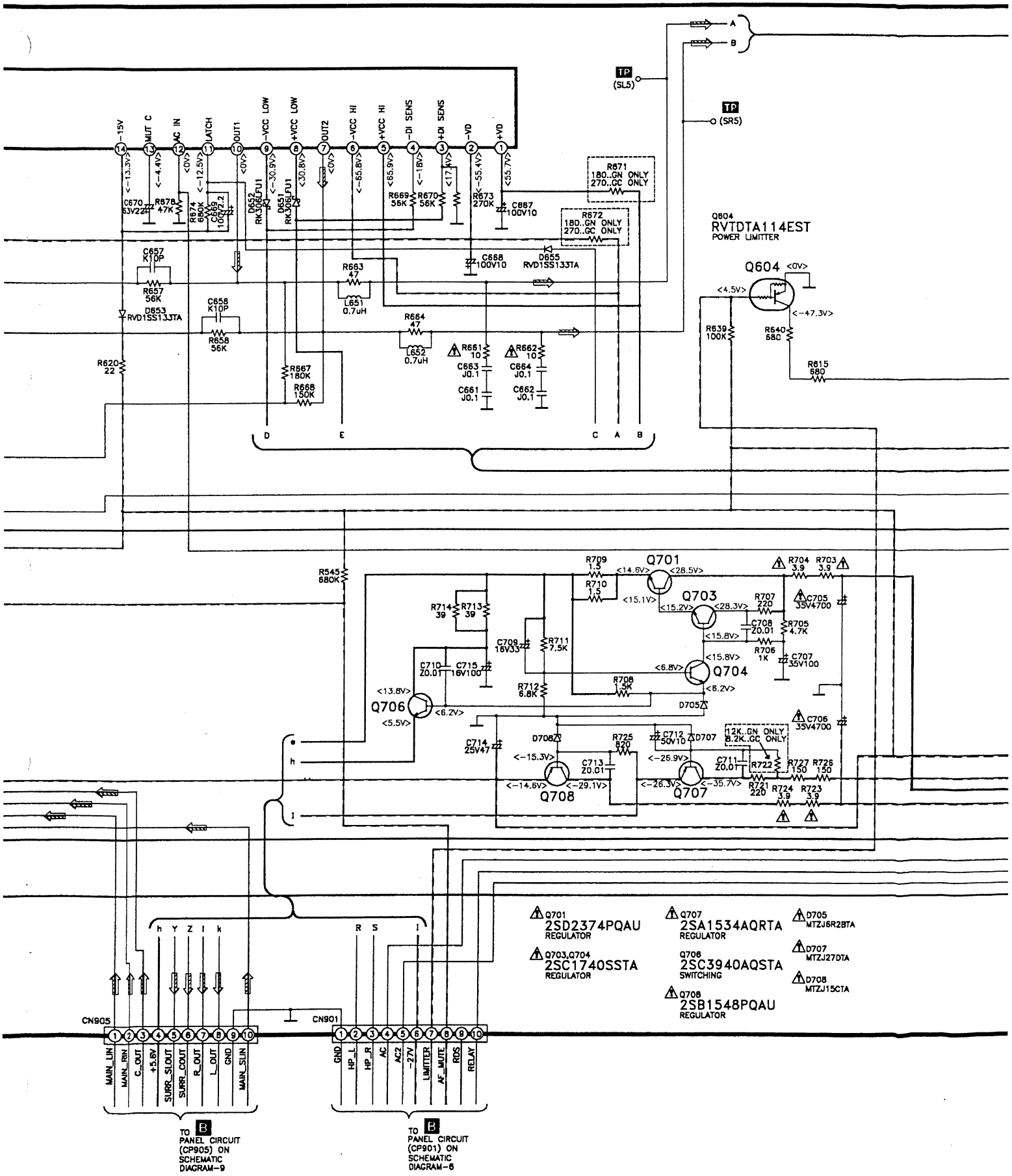
SCHEMATIC DIAGRAM - 2

——: +B line — —: −B line ⇨: Main signal line



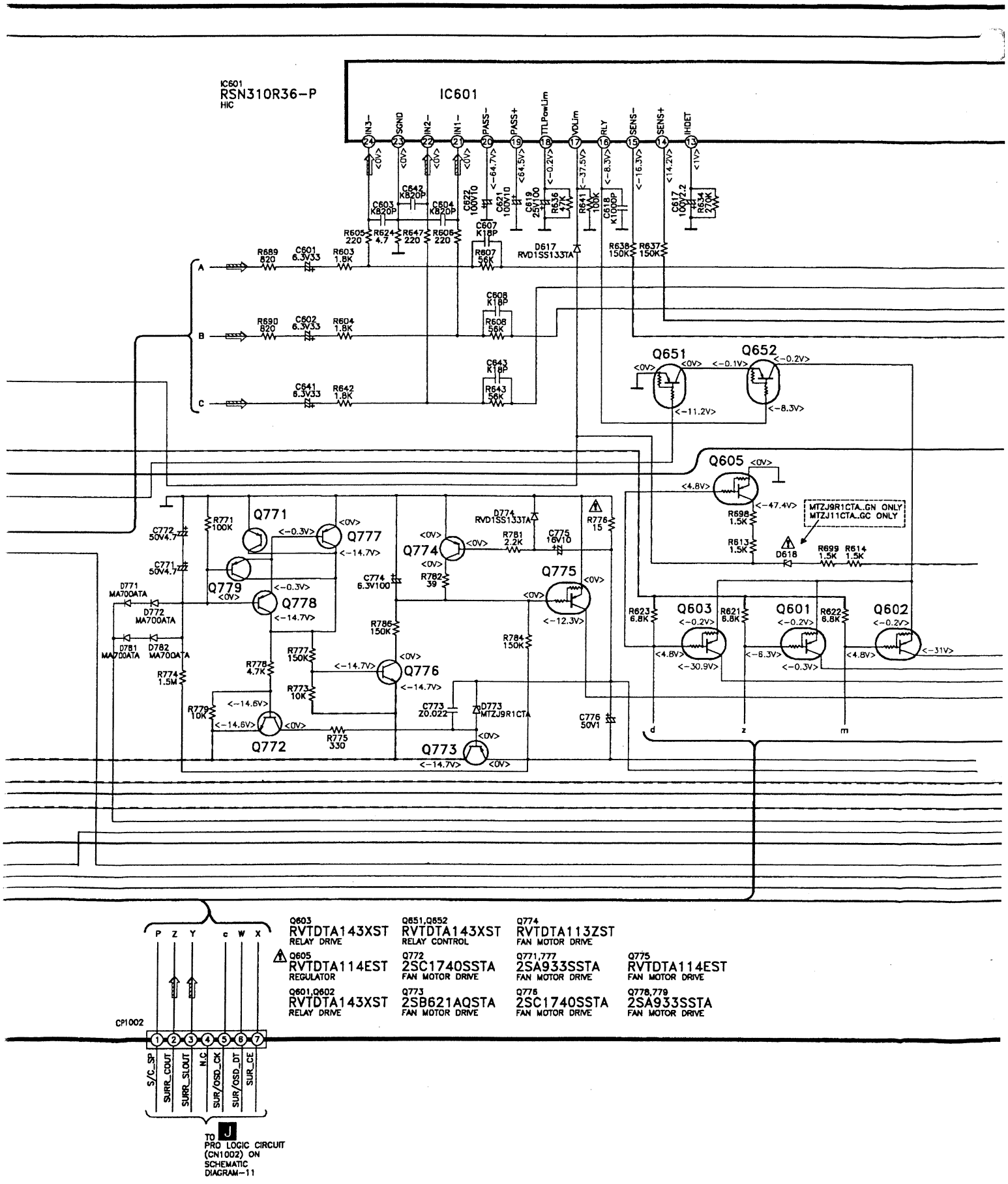
SCHEMATIC DIAGRAM - 3

——— : +B line — — —: −B line ⇨ : Main signal line



SCHEMATIC DIAGRAM - 4

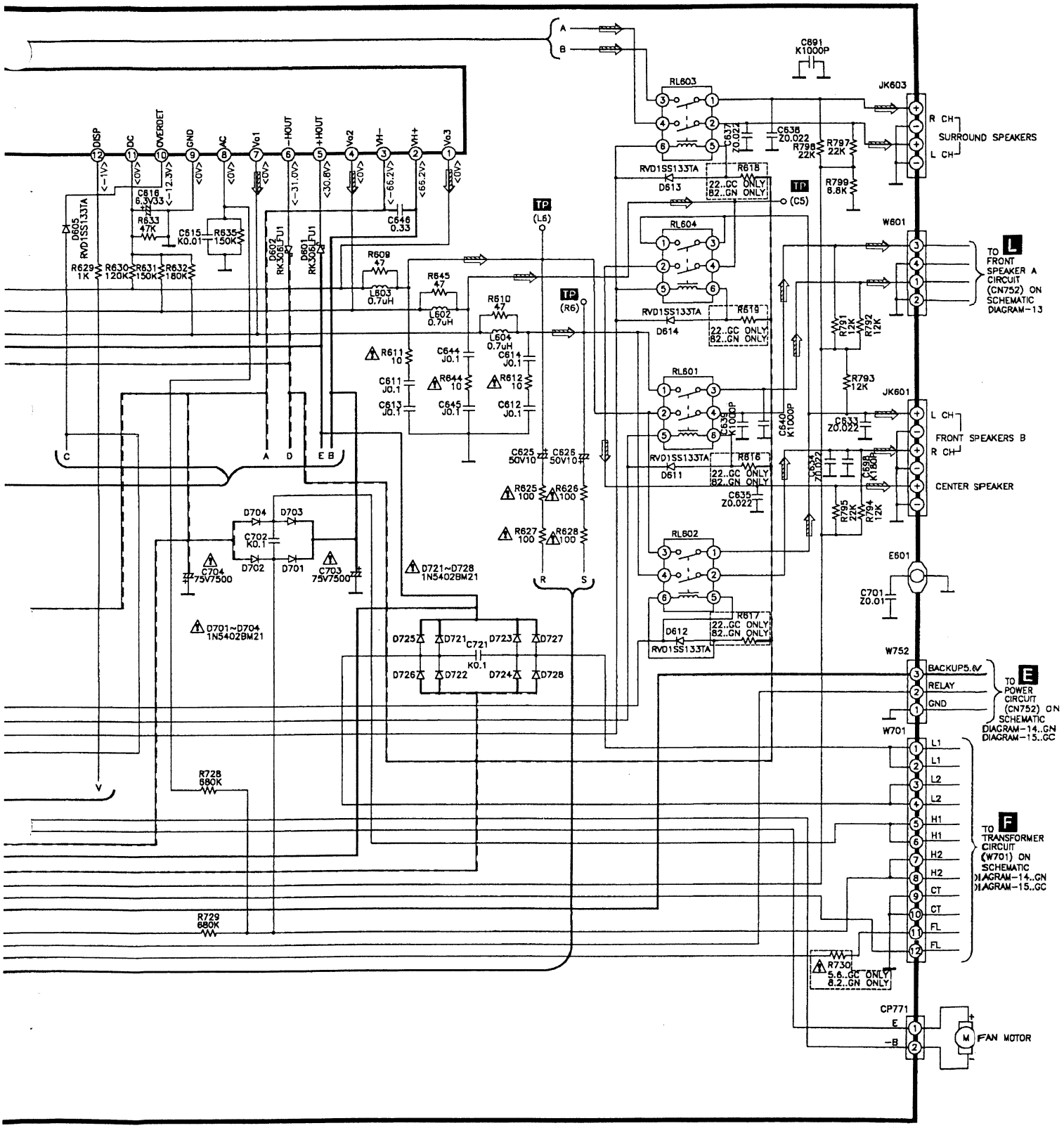
——: +B line — —: −B line ⇨: Main signal line



Q603 RVTDTA143XST RELAY DRIVE	Q651,Q652 RVTDTA143XST RELAY CONTROL	Q774 RVTDTA113ZST FAN MOTOR DRIVE	
⚠ Q605 RVTDTA114EST REGULATOR	Q772 2SC1740SSTA FAN MOTOR DRIVE	Q771,777 2SA933SSTA FAN MOTOR DRIVE	Q775 RVTDTA114EST FAN MOTOR DRIVE
Q601,Q602 RVTDTA143XST RELAY DRIVE	Q773 2SB621AQSTA FAN MOTOR DRIVE	Q776 2SC1740SSTA FAN MOTOR DRIVE	Q778,779 2SA933SSTA FAN MOTOR DRIVE

SCHEMATIC DIAGRAM - 5

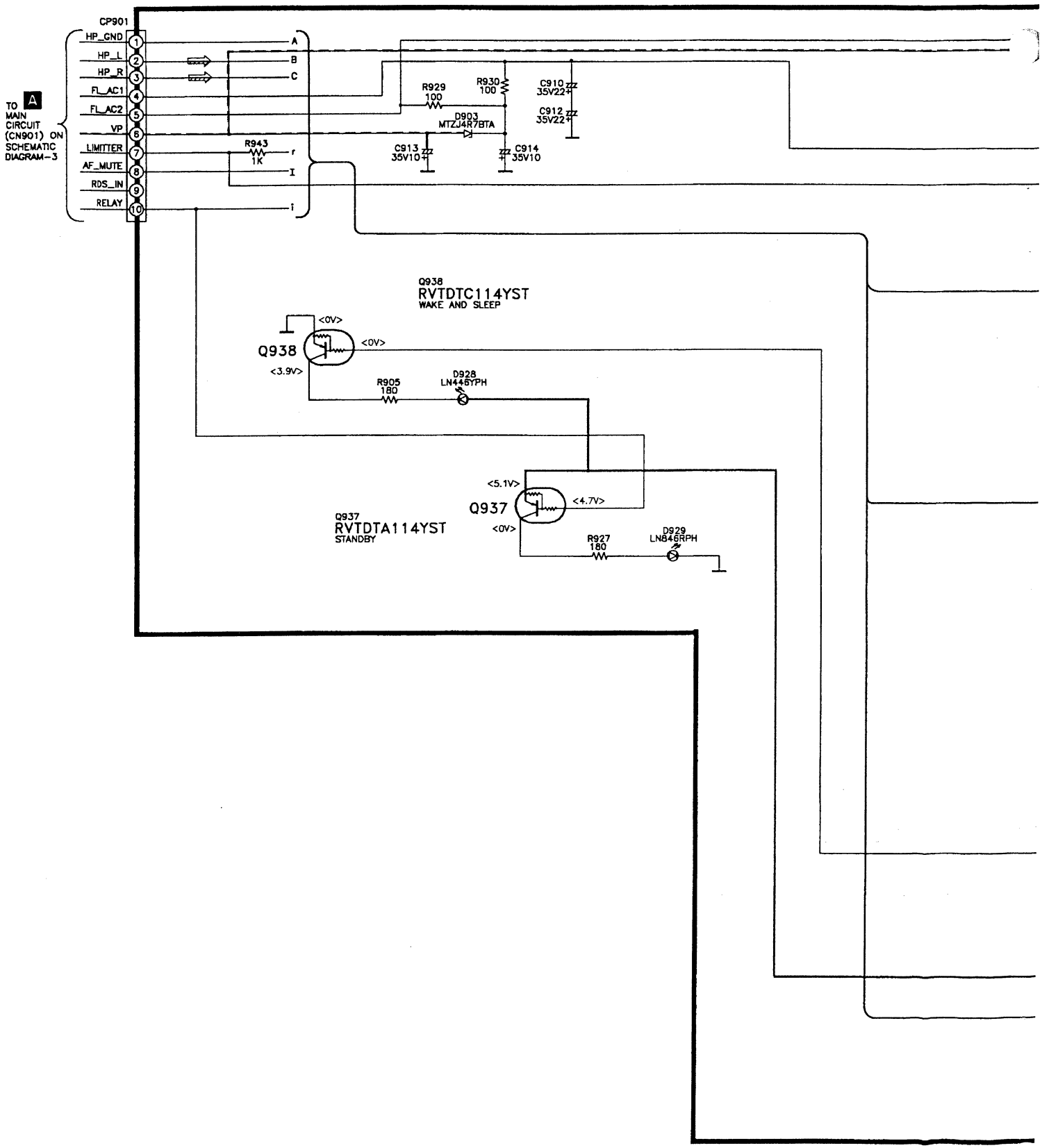
——: +B line — —: −B line ⇒: Main signal line



SCHEMATIC DIAGRAM - 6

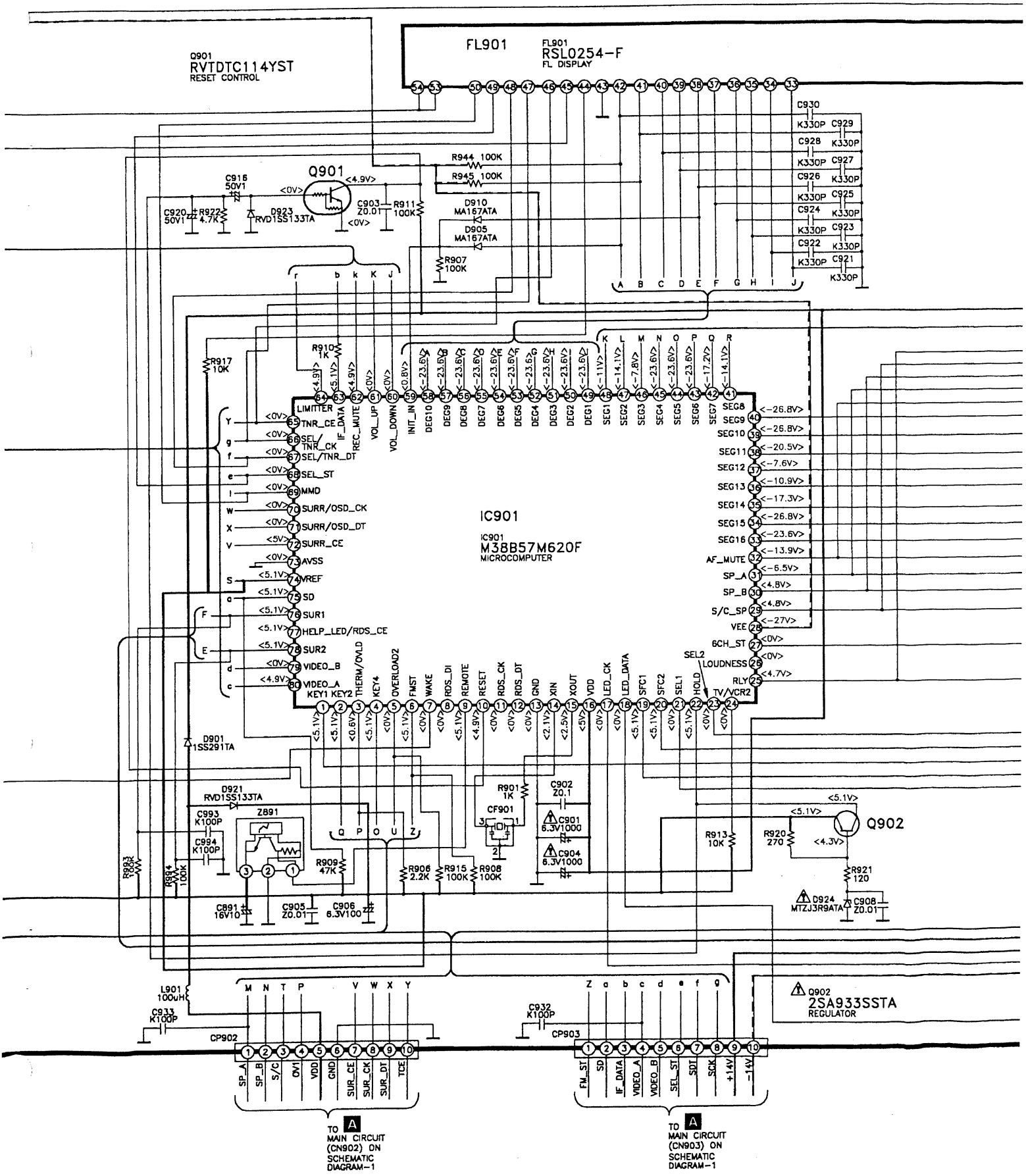
⇨ : Main signal line ——— : +B line – – – : –B line

B PANEL CIRCUIT (P.C.BOARD ON PAGE 44)



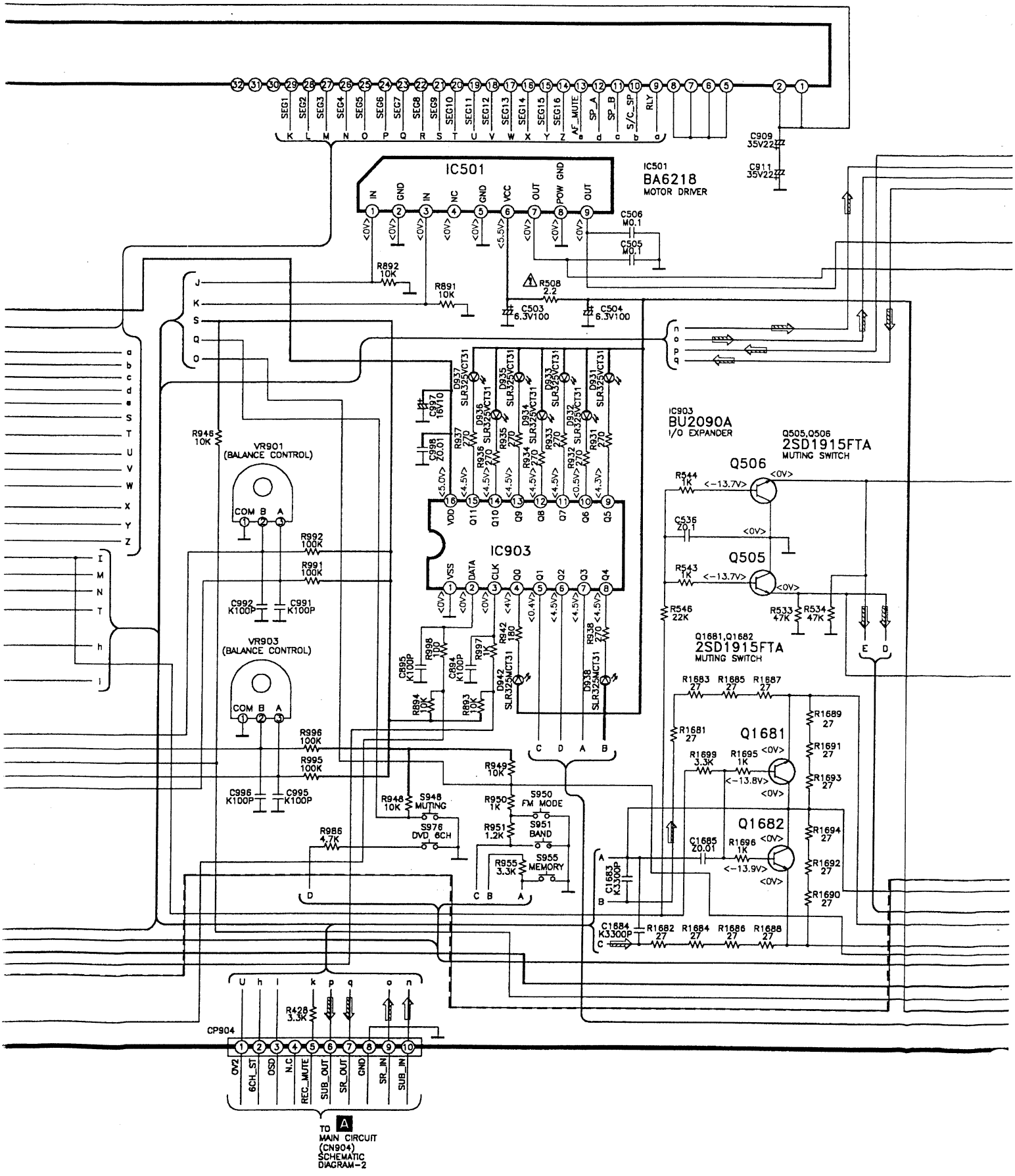
SCHEMATIC DIAGRAM - 7

⇨ : Main signal line ——— : +B line — — — : −B line



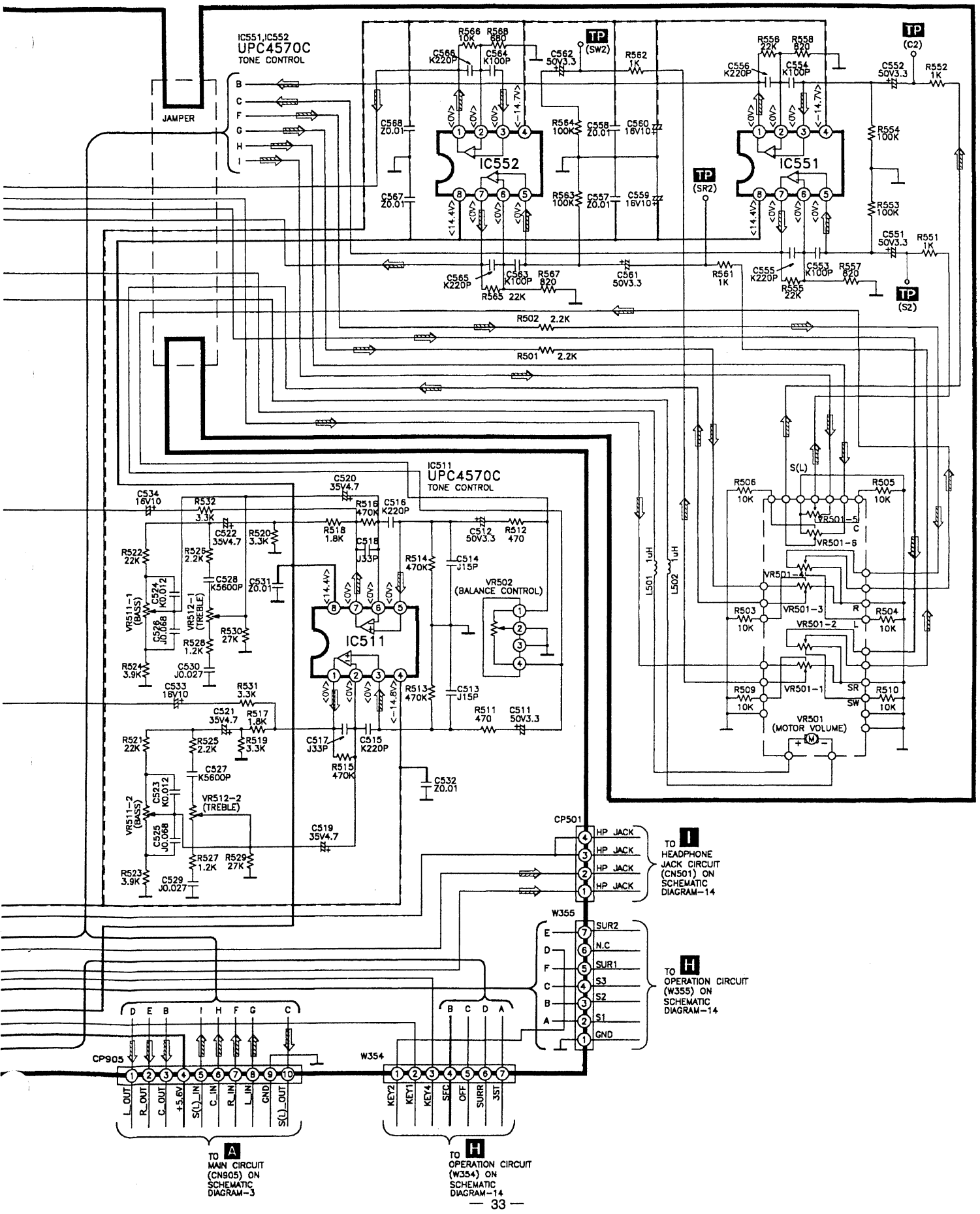
SCHEMATIC DIAGRAM - 8

⇨ : Main signal line ——— : +B line — — — : −B line



SCHEMATIC DIAGRAM - 9

⇨ : Main signal line ——— : +B line – – – : –B line

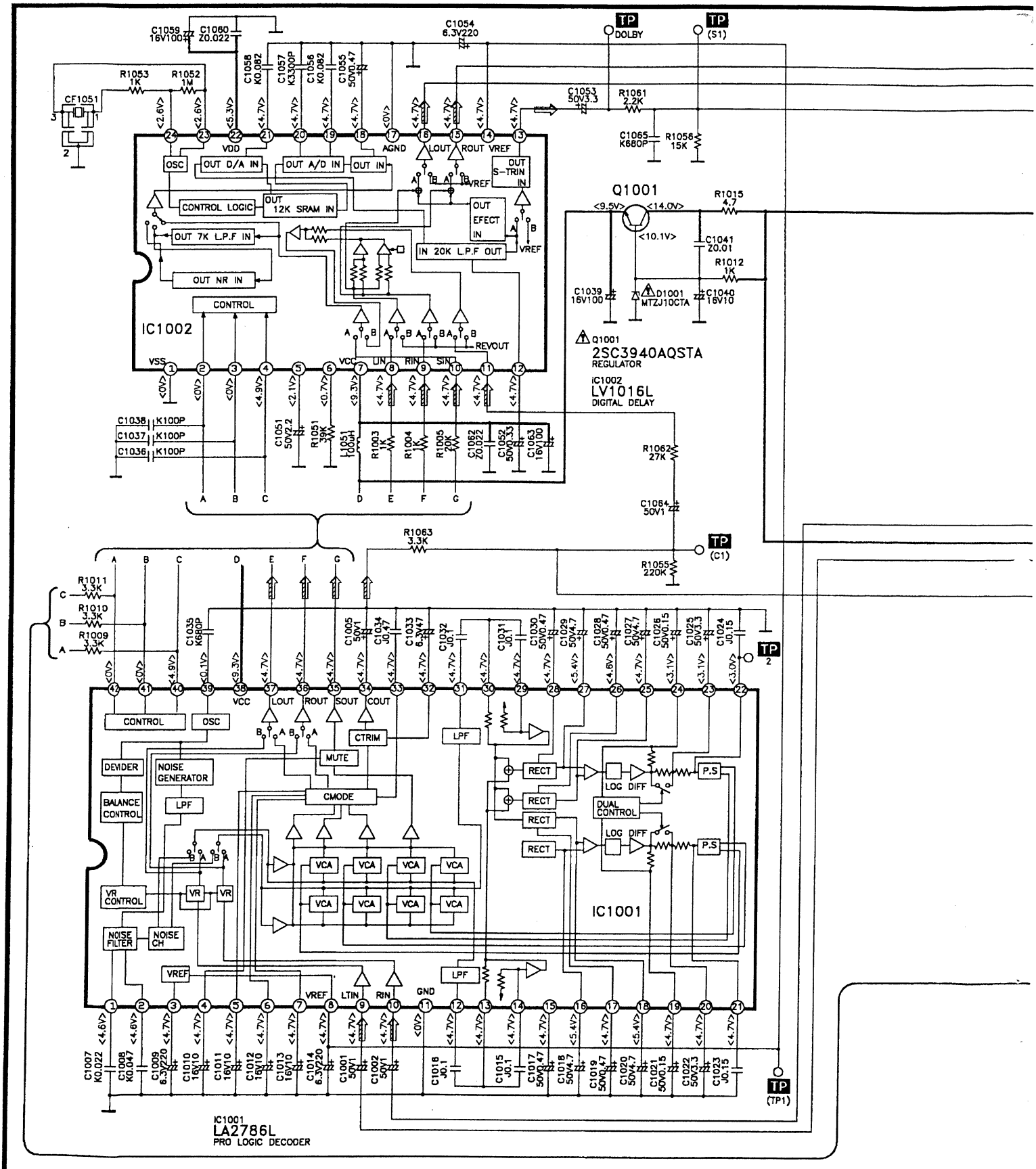


SCHEMATIC DIAGRAM - 10

——— : +B line ⇨ : Main signal line

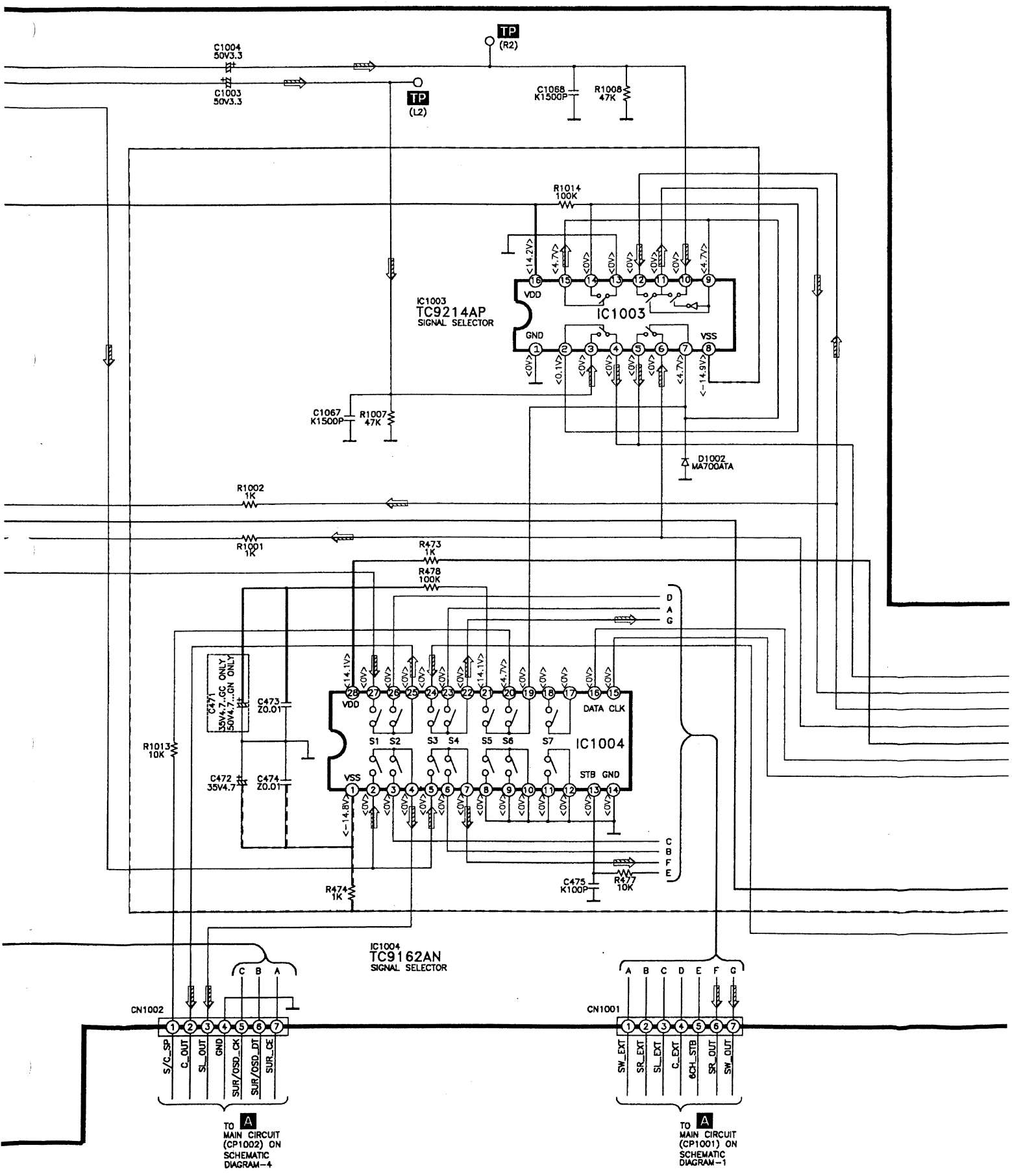
J PRO LOGIC CIRCUIT

(P.C.BOARD ON PAGE 47)



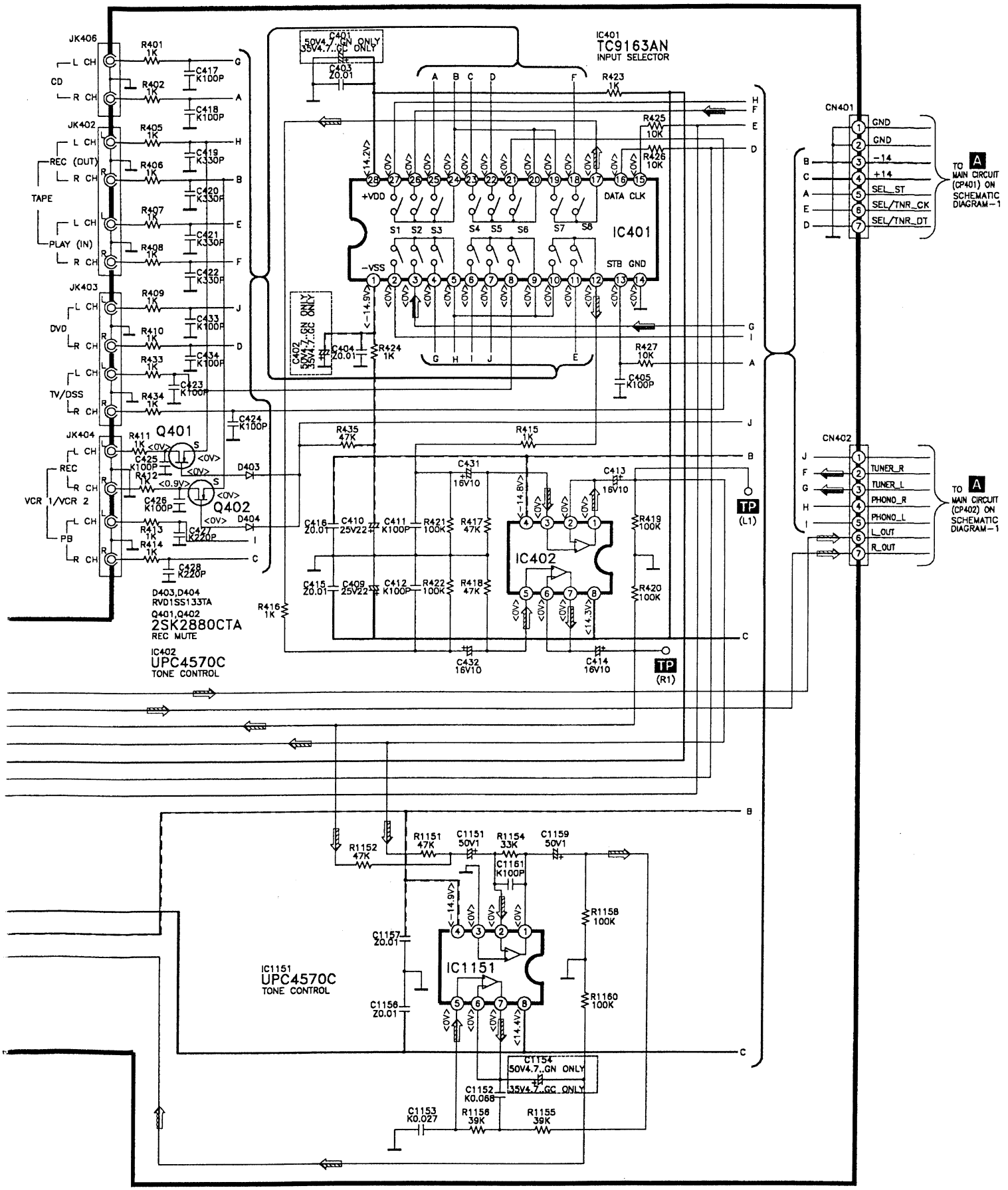
SCHEMATIC DIAGRAM - 11

——: +B line - - -: -B line ⇒: Main signal line



SCHEMATIC DIAGRAM - 12

——: +B line　- - -: -B line　: Main signal line　: FM/AM signal line

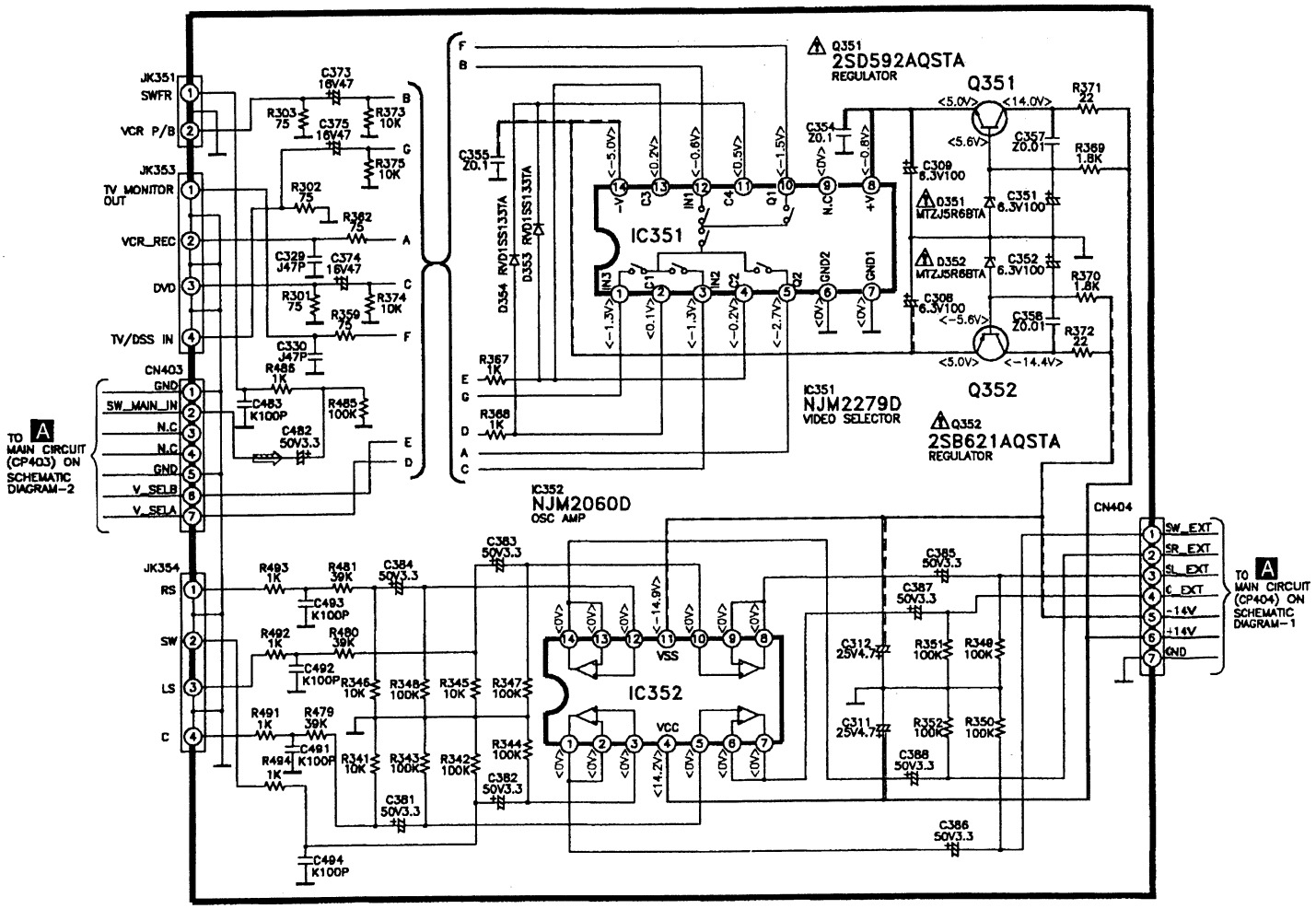


SCHEMATIC DIAGRAM - 13

K AC-3 CIRCUIT

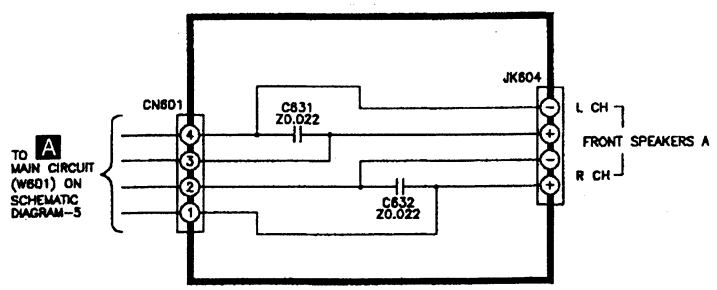
(P.C.BOARD ON PAGE 46)

——: +B line — —: -B line



L FRONT SPEAKERS A

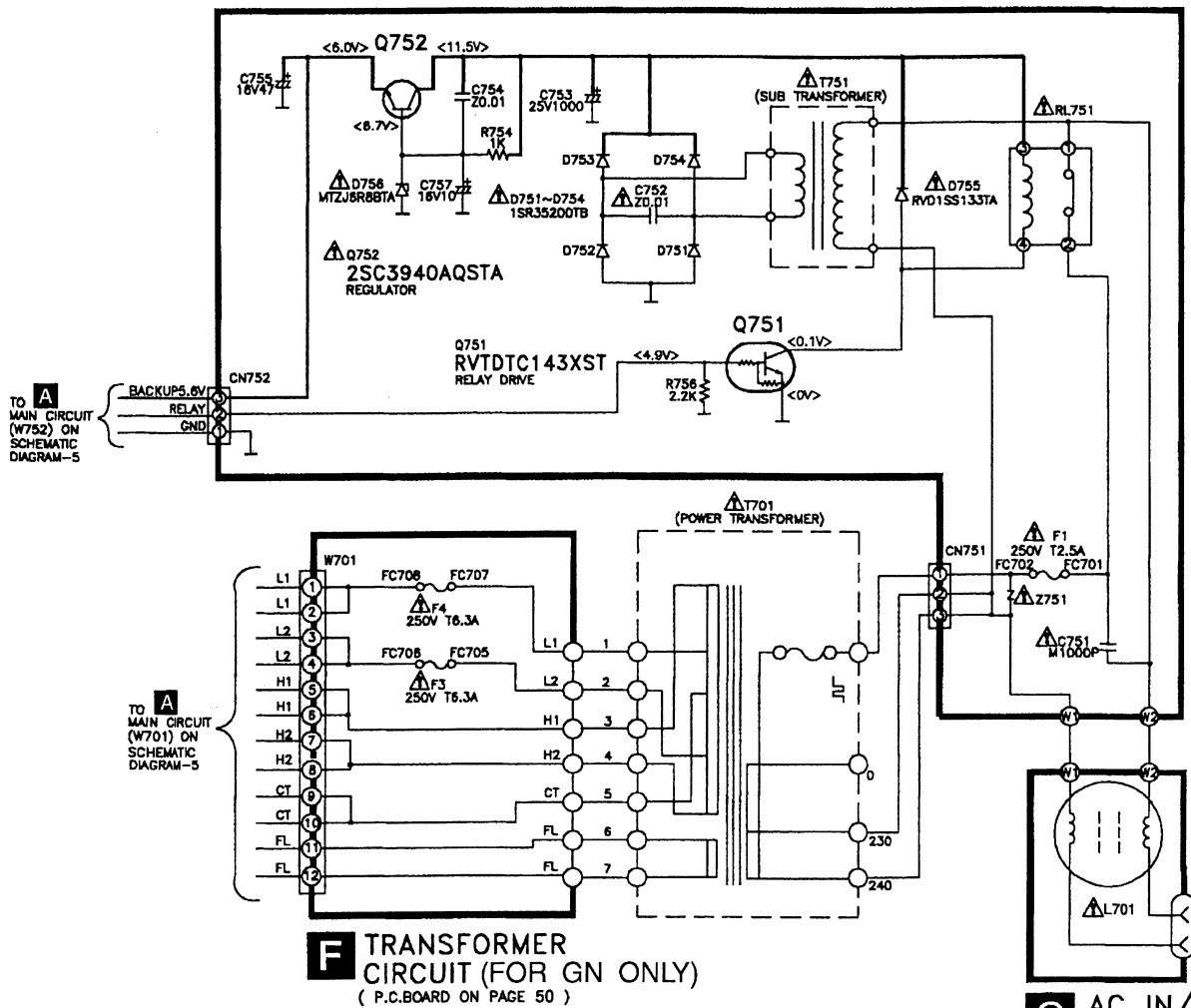
(P.C.BOARD ON PAGE 48)



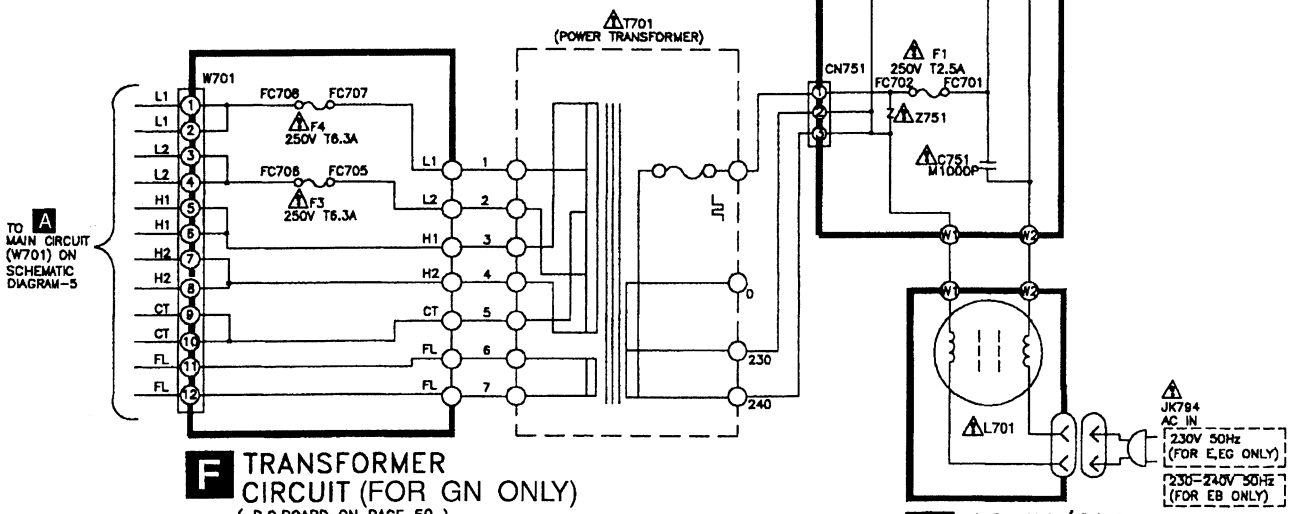
SCHEMATIC DIAGRAM - 14

——: +B line

E POWER CIRCUIT (FOR GN ONLY)
(P.C.BOARD ON PAGE 50)



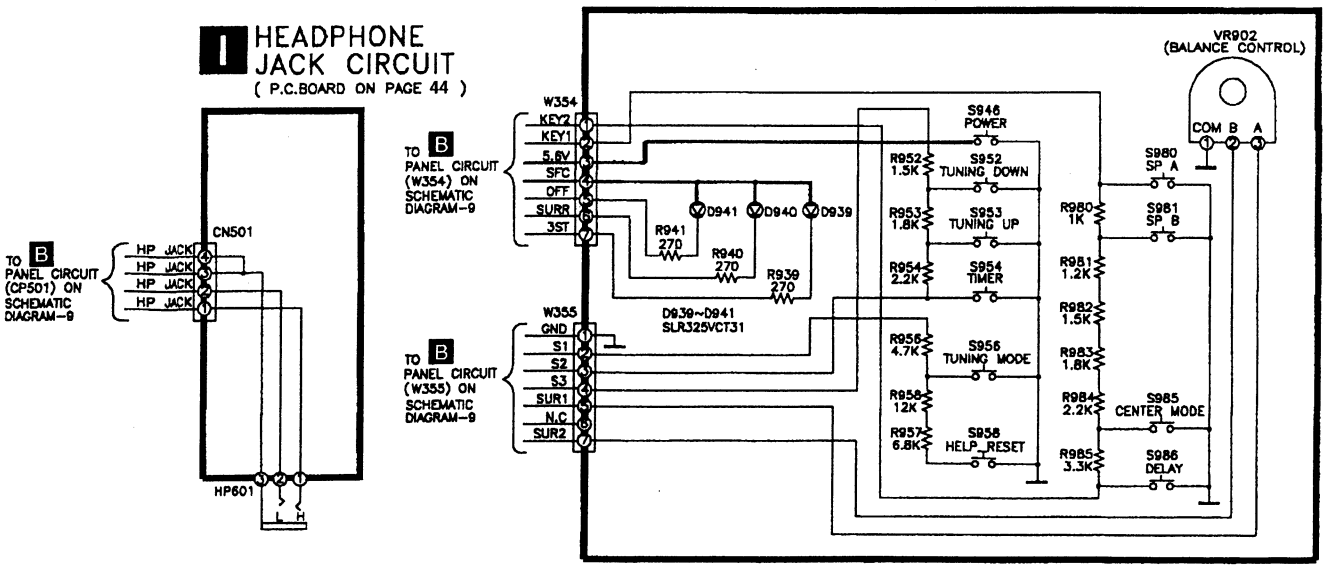
F TRANSFORMER CIRCUIT (FOR GN ONLY)
(P.C.BOARD ON PAGE 50)



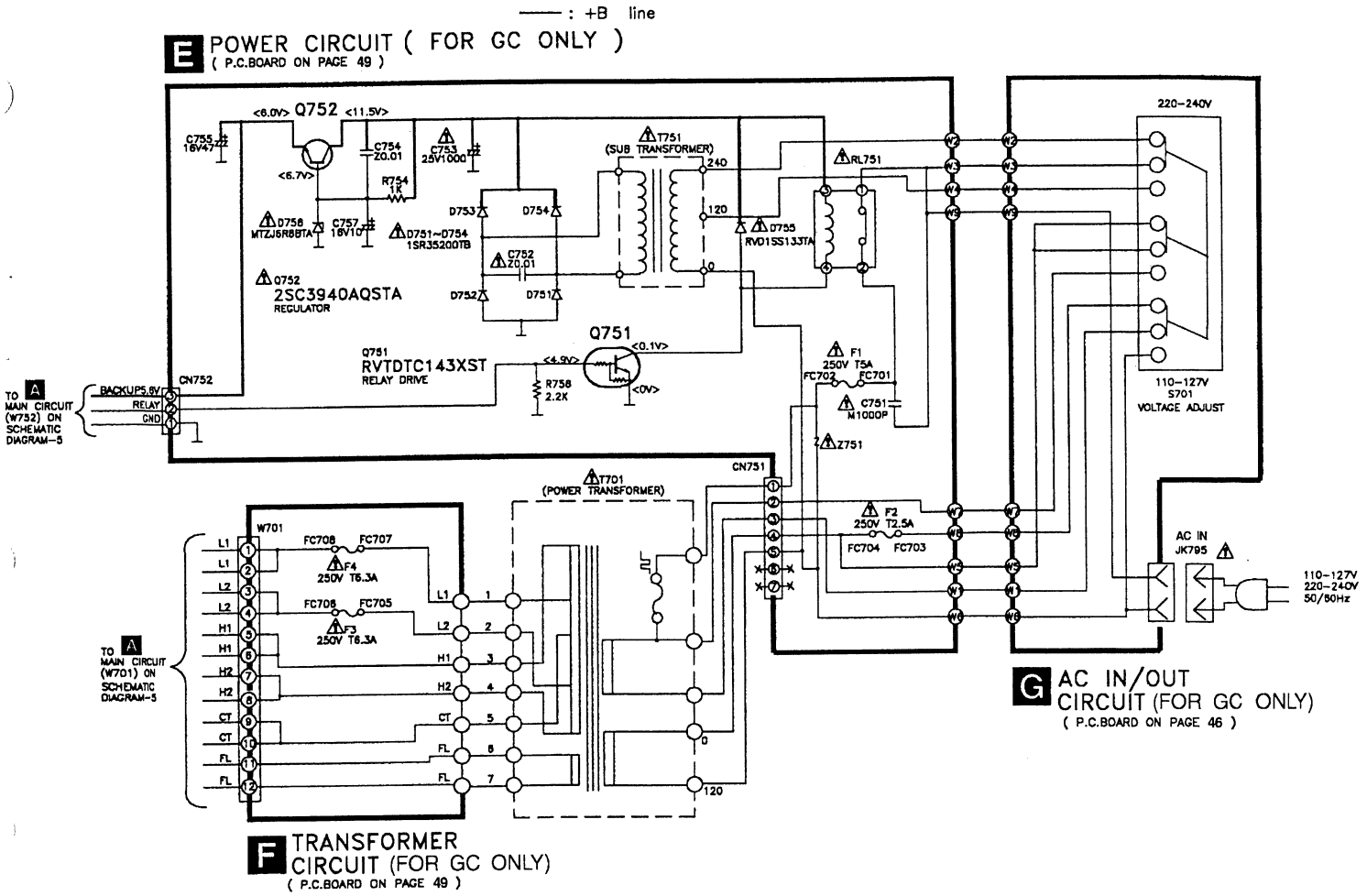
G AC IN/OUT CIRCUIT (FOR GN ONLY)
(P.C.BOARD ON PAGE 46)

H OPERATION CIRCUIT
(P.C.BOARD ON PAGE 45)

I HEADPHONE JACK CIRCUIT
(P.C.BOARD ON PAGE 44)



SCHEMATIC DIAGRAM - 15

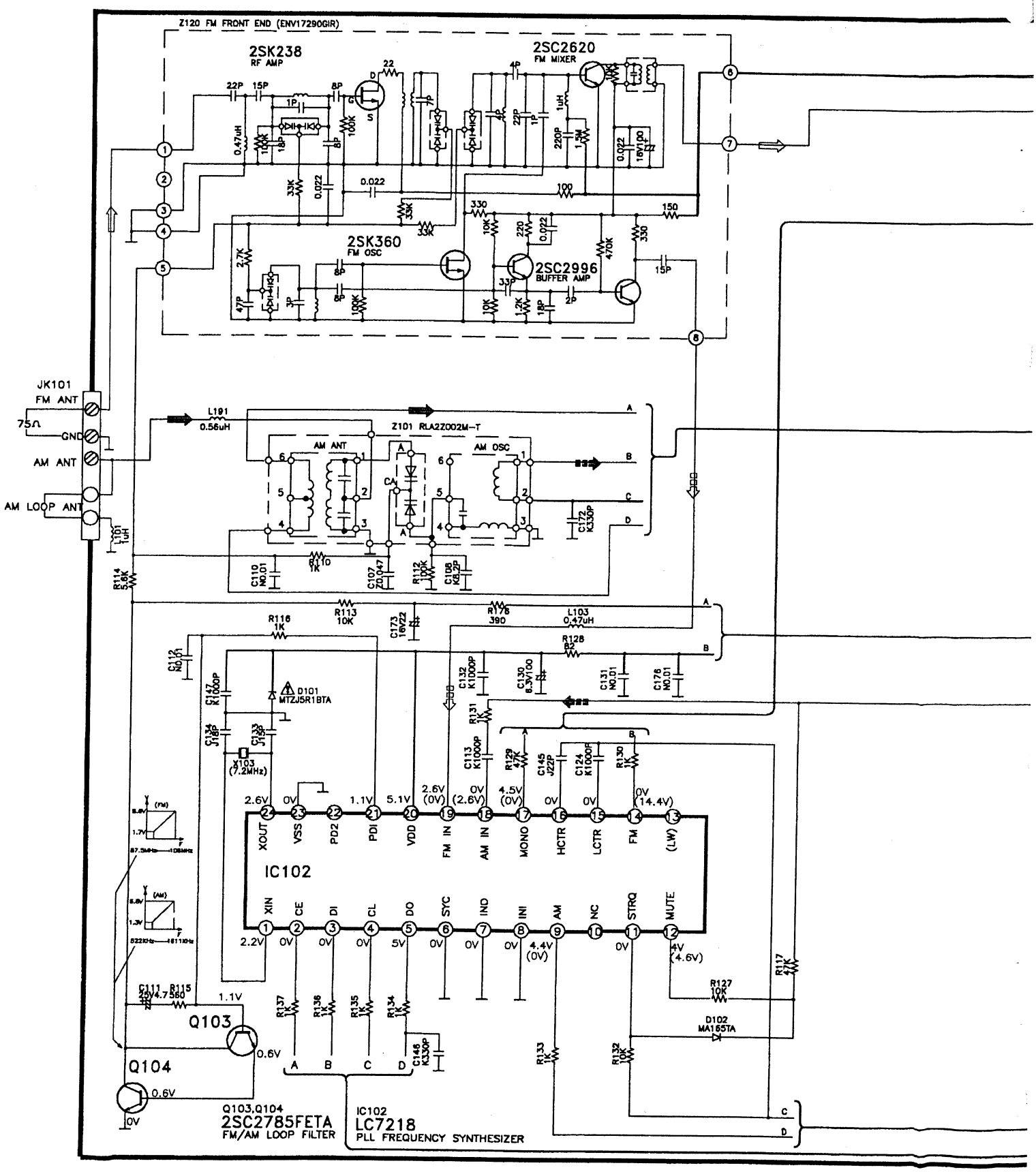


SCHEMATIC DIAGRAM - 16

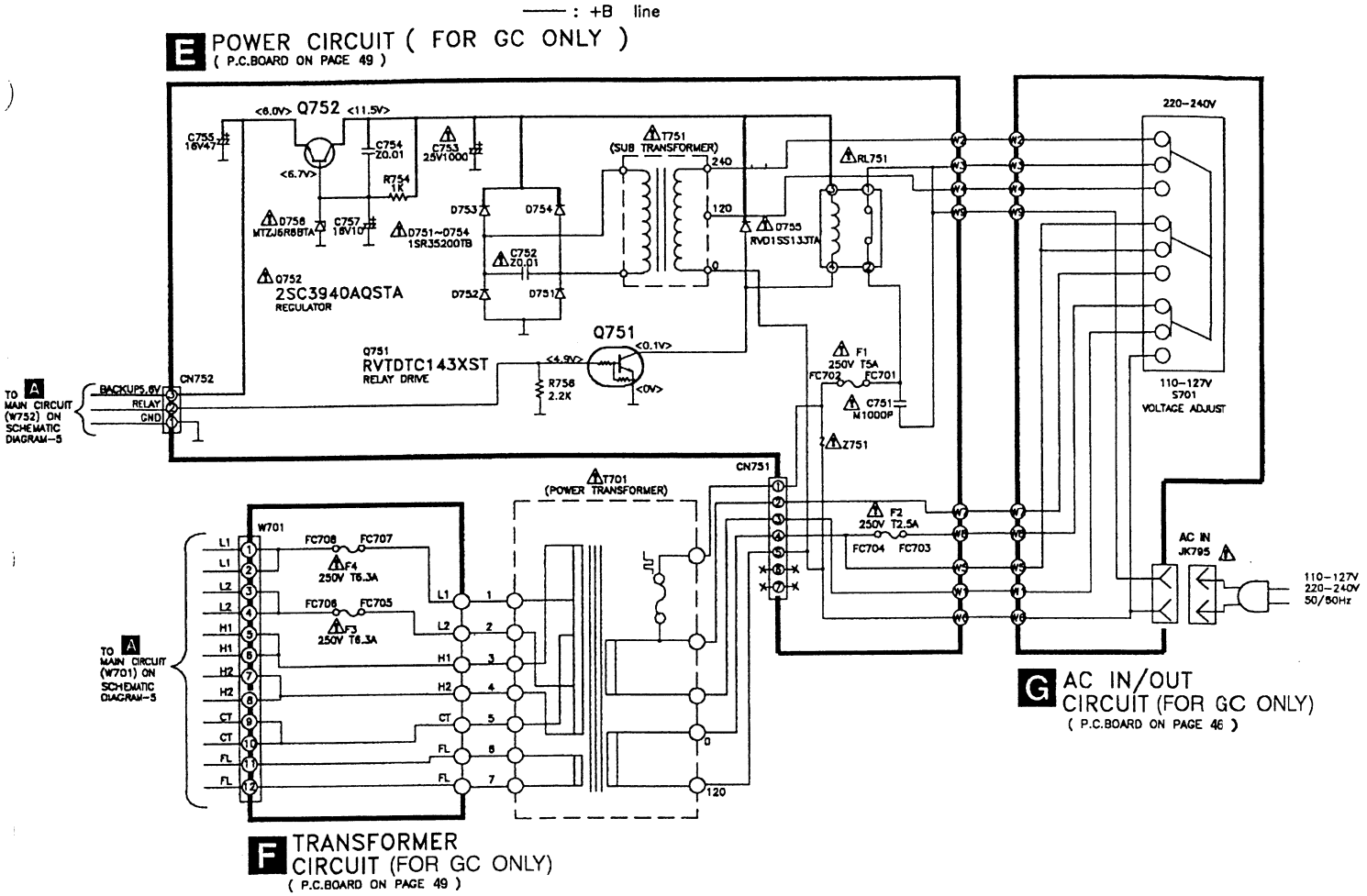
C TUNER CIRCUIT

(P.C.Board on page 48)

⇨: FM Signal Line ⇨: FM OSC Signal Line
➡: AM Signal Line ➡: AM OSC Signal Line
———: +B Line — — : −B Line ⇨: FM/AM Signal Line



SCHEMATIC DIAGRAM - 15

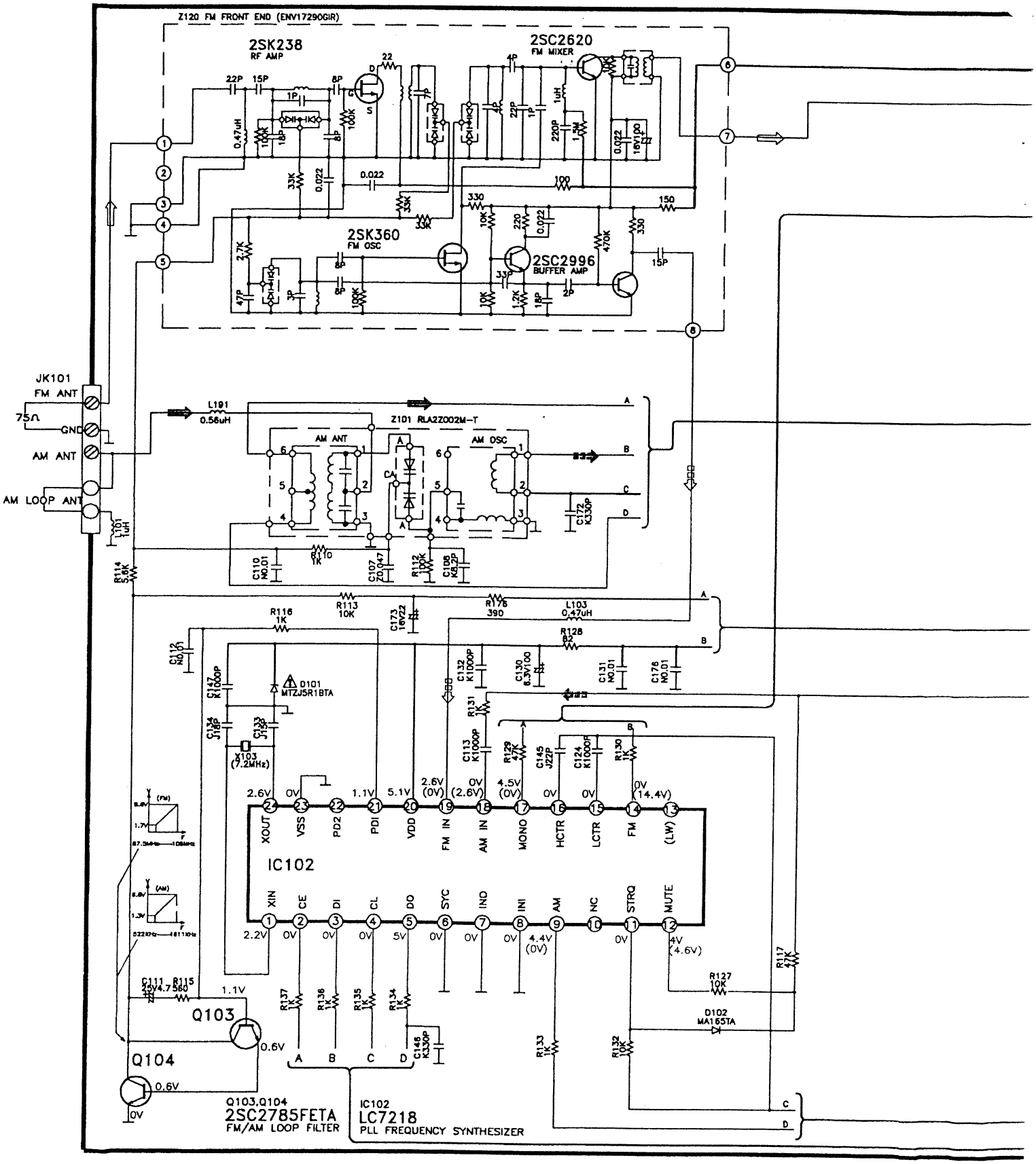


SCHEMATIC DIAGRAM - 16

C TUNER CIRCUIT

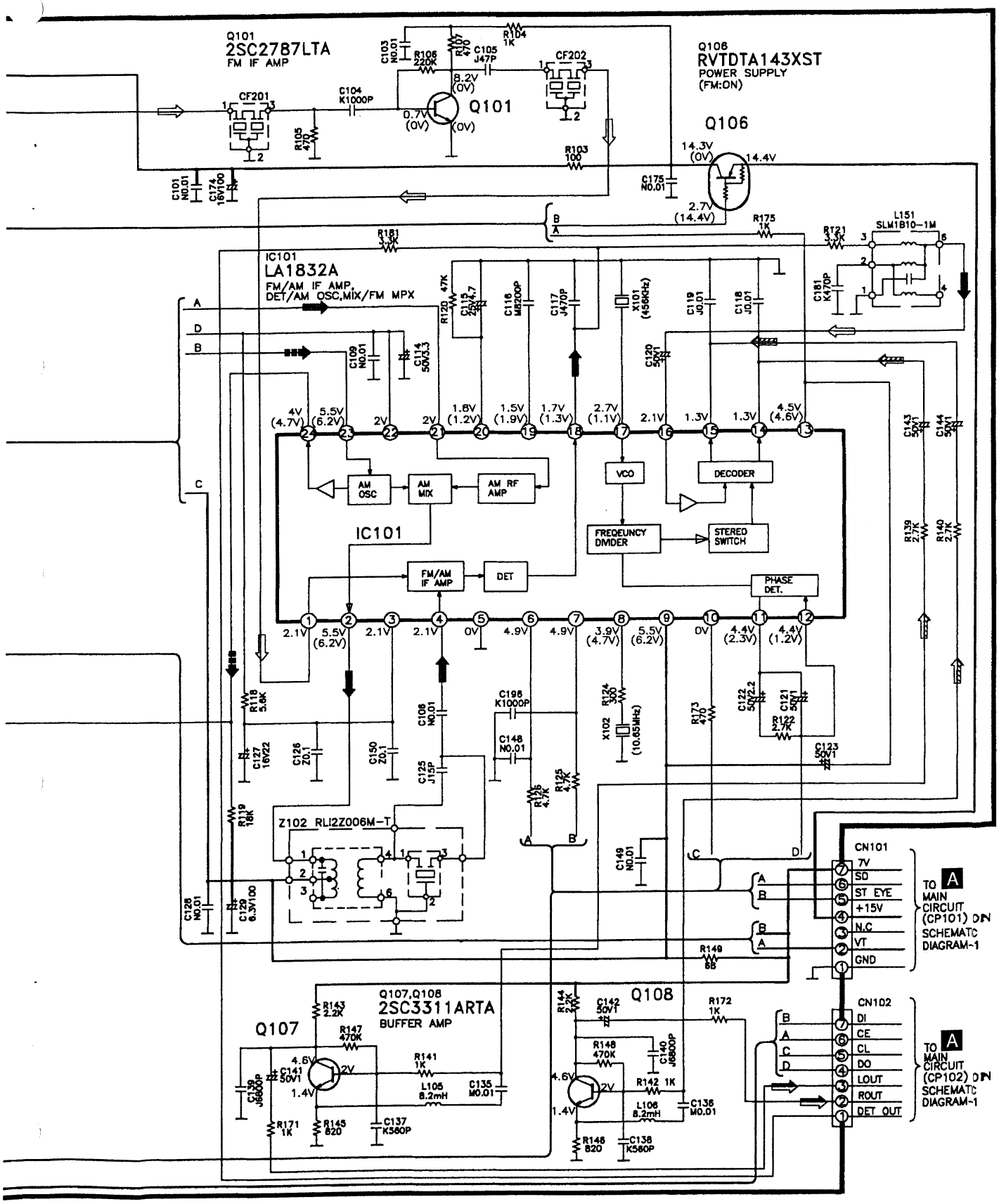
(P.C.Board on page 48)

⇨: FM Signal Line ⇨: FM OSC Signal Line
➡: AM Signal Line ➡: AM OSC Signal Line
———: +B Line — — : −B Line ⇨: FM/AM Signal Line



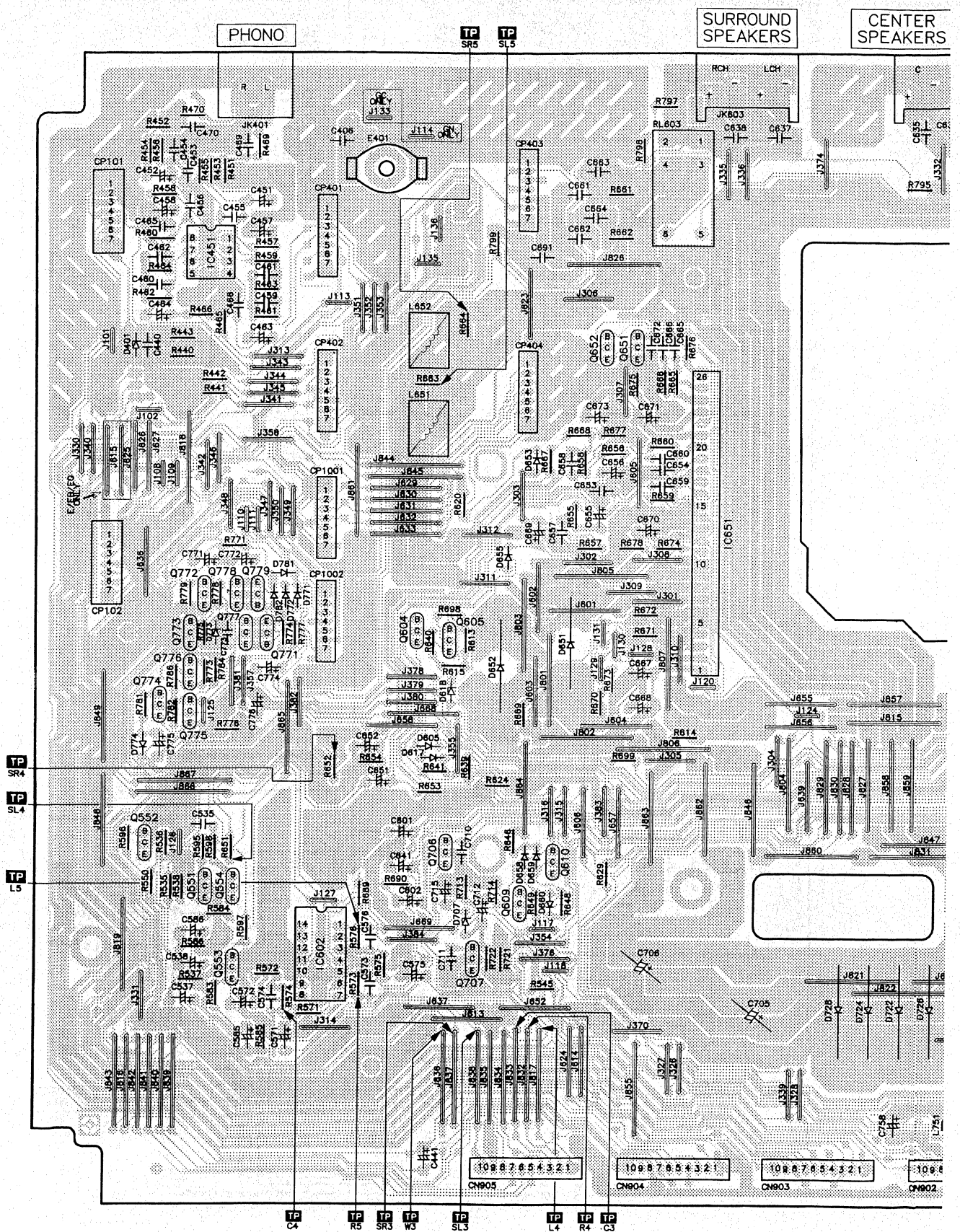
SCHEMATIC DIAGRAM - 17

: FM Signal Line
: AM Signal Line
: +B Line
: FM OSC Signal Line
: AM OSC Signal Line
: -B Line
: FM/AM Signal Line

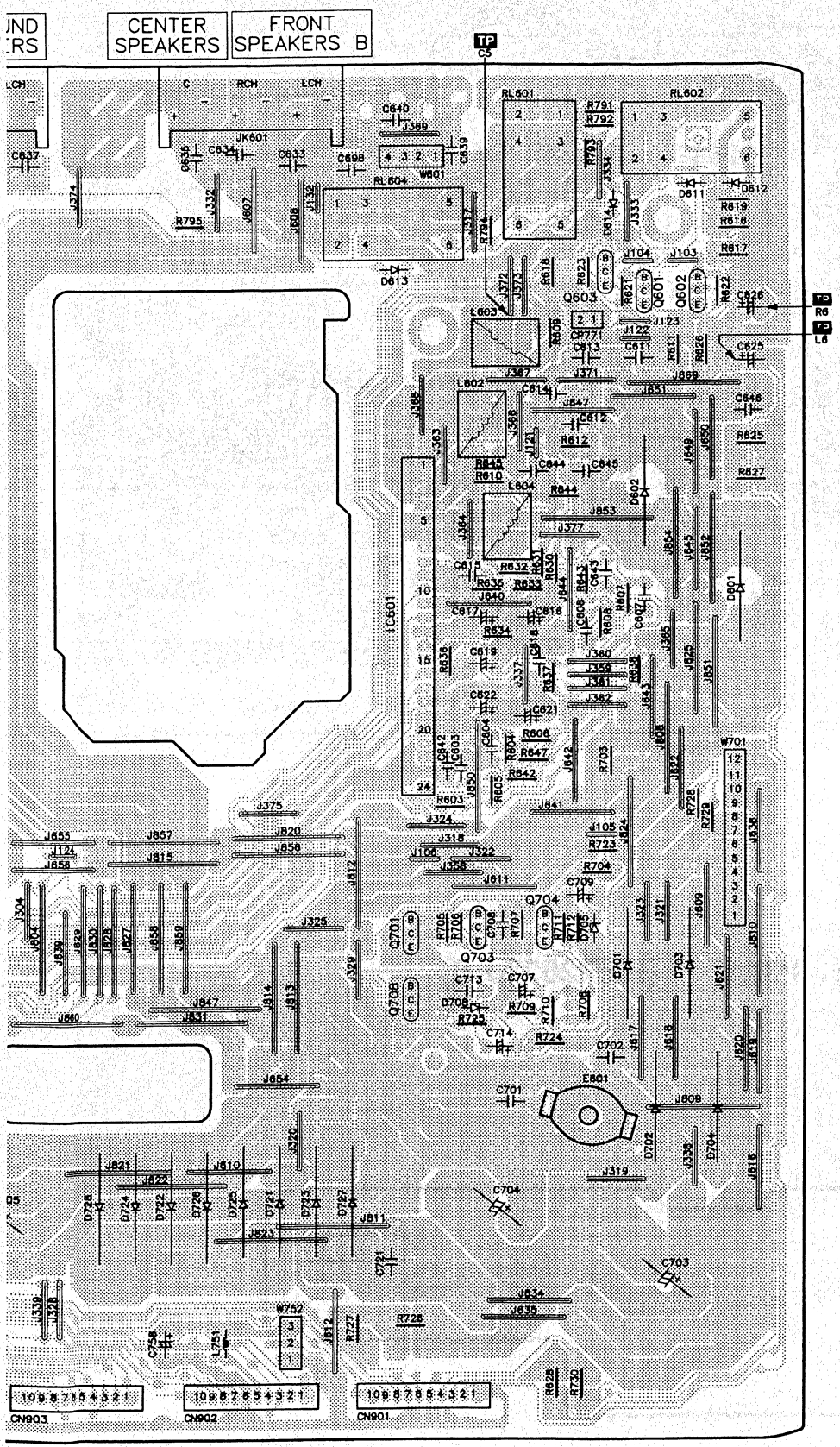


Printed Circuit Board (This printed circuit board diagram may be modified at any time with the developement of new technology.)

A MAIN P.C.B. (REP2627C-M) ... GN (REP2627D-M) ... GC



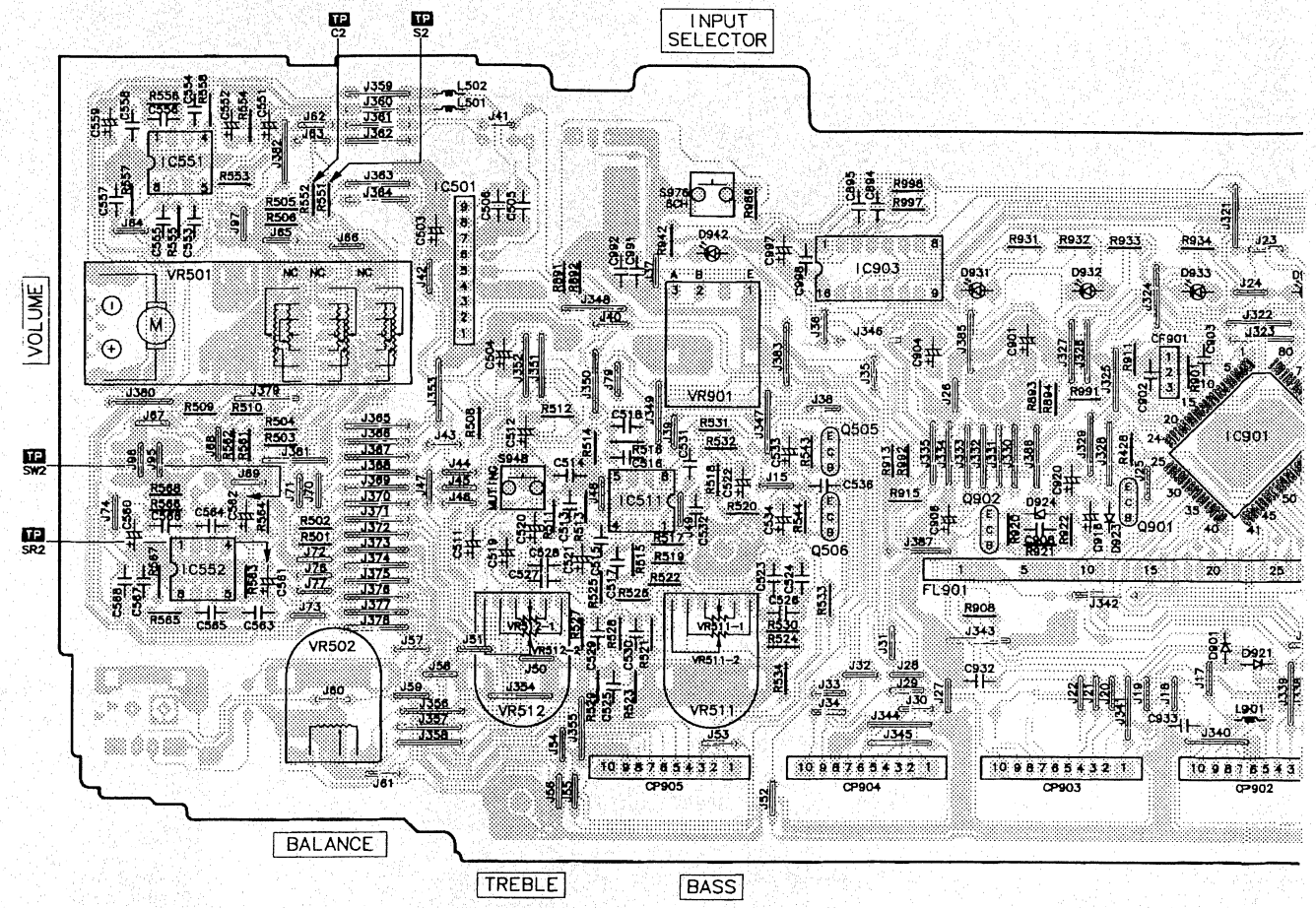
G H I J K L M



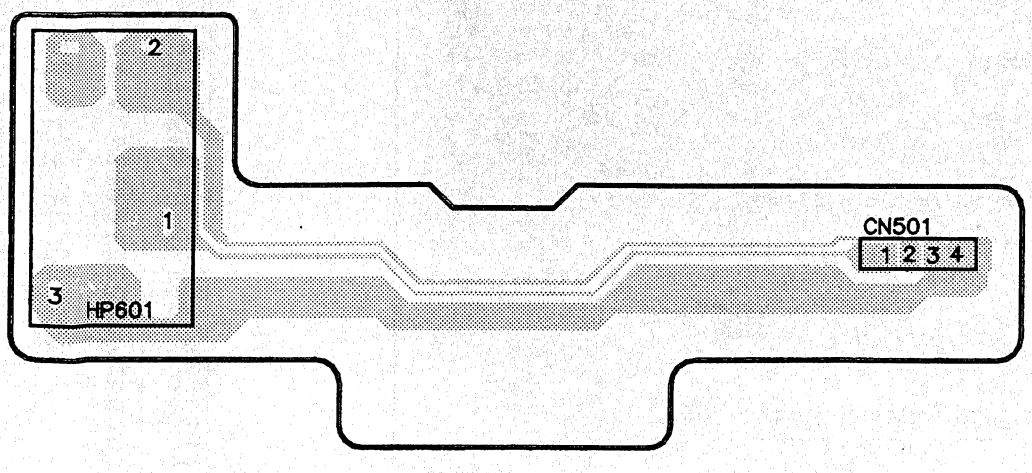
Semiconductors Locations Table

Ref. No	Loc. No	Ref. No	Loc. No
CN901	I10	IC601	I5
CN902	H10	IC602	G8
CN904	C5	IC651	F5
CN905	D10	JK401	C2
CP1001	G3	JK601	H2
CP1002	D5	JK603	F2
CP101	A2	L504	J4
CP102	A6	L551	D4
CP401	C2	L552	D3
CP402	C4	L751	H9
CP403	E2	Q551	B8
CP404	E4	Q552	B7
D401	B4	Q553	B8
D601	K5	Q554	B8
D602	J4	Q601	J3
D605	D6	Q602	K3
D611	K2	Q603	J3
D612	K2	Q604	D6
D613	I3	Q605	D6
D614	J2	Q606	D6
D617	D7	Q609	D8
D651	E6	Q610	E7
D652	D6	Q651	E4
D655	D5	Q652	E4
D658	E8	Q701	I7
D659	E8	Q703	I7
D660	E8	Q704	J7
D701	J7	Q706	D7
D702	J8	Q707	D8
D703	K7	Q708	I7
D704	K8	Q771	C6
D705	J7	Q772	B5
D706	I7	Q773	B6
D707	D8	Q775	B6
D721	H8	Q777	B6
D722	G8	Q778	B5
D723	H8	Q779	C5
D724	G8	Q909	B4
D725	H8	RL601	J2
D727	H8	RL603	F2
D728	G8	RL604	I2
D771	C5	W601	I2
D772	C6	W701	K6
D773	B6	W752	H9
D774	B7		
D781	C5		
D782	C6		
E401	C2		
E601	J8		
IC451	B3		

B PANEL P.C.B. (REP2628J-S)



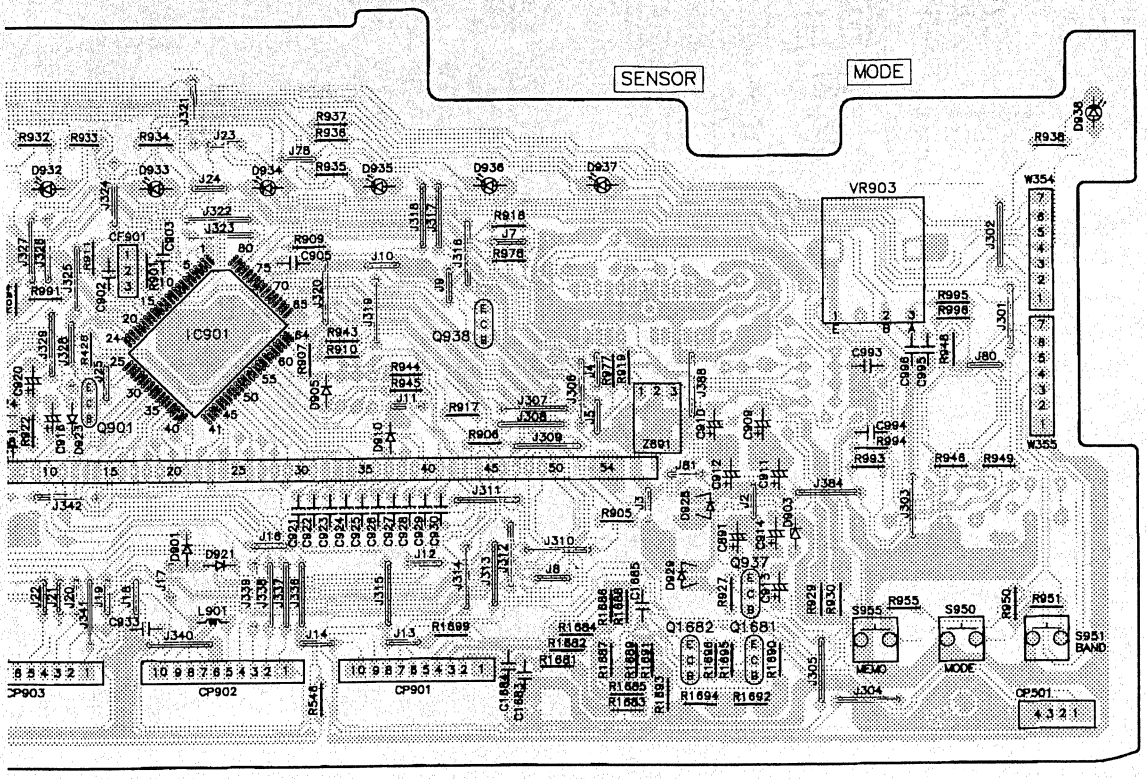
I HEADPHONE JACK P.C.B. (REP2628J-S)



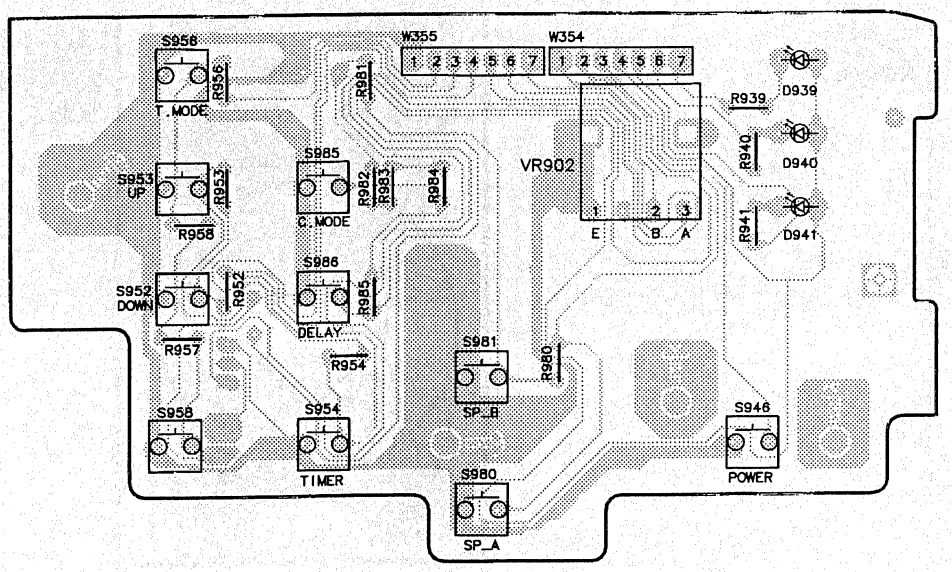
G H I J K L M

Semiconductors Locations Table

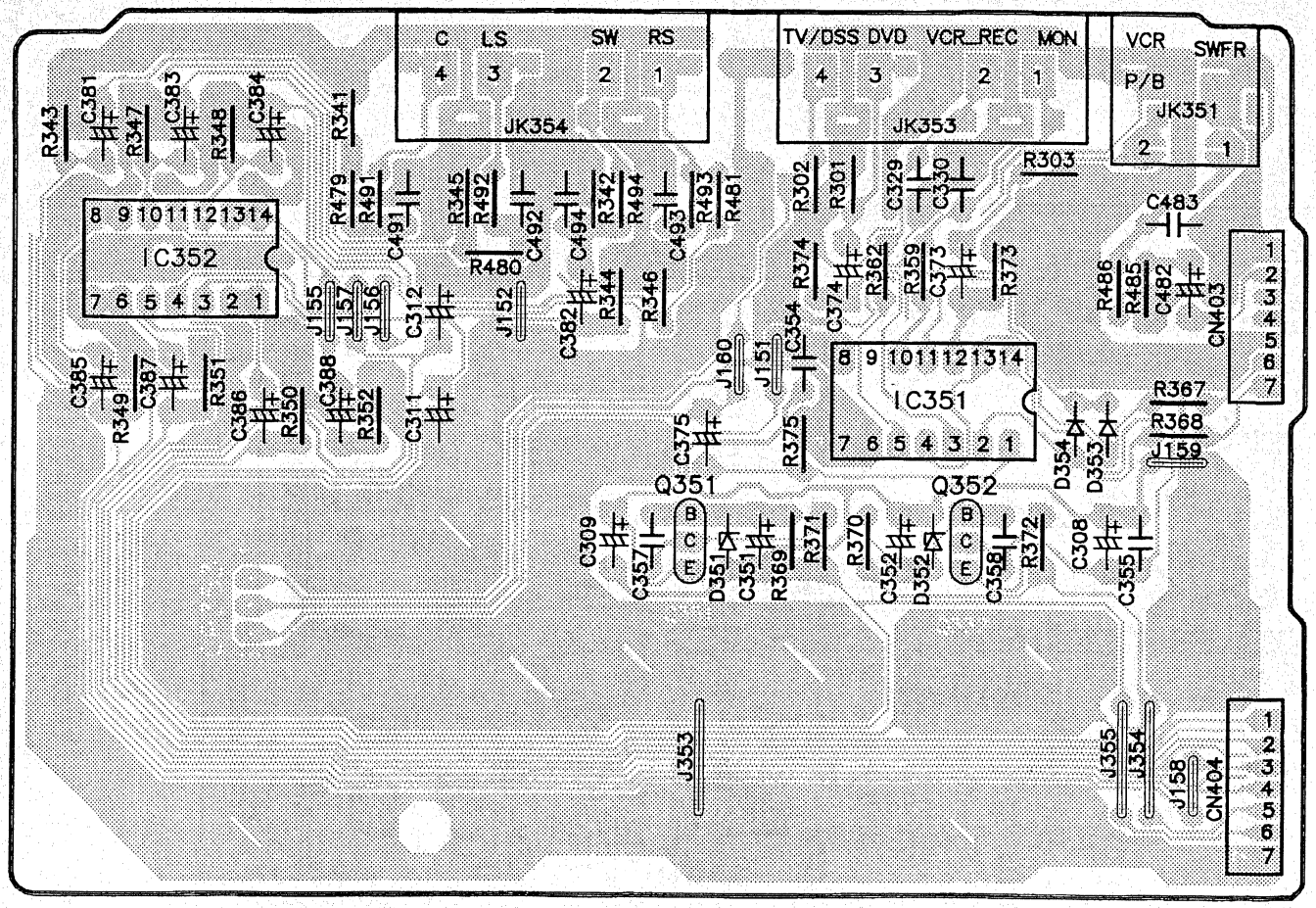
Ref. No	Loc. No
CF901	G3
CP501	L6
CP901	I5
CP902	H5
CP903	G5
CP904	E5
CP905	D5
D901	G5
D903	K5
D905	H4
D906	K3
D909	J3
D910	H4
D921	H4
D923	G4
D924	F4
D925	M3
D928	J4
D929	J5
D931	F3
D932	G3
D933	G3
D934	H3
D935	H3
D936	I3
D937	J3
D938	L2
D942	E3
FL901	F4
IC501	C2
IC551	B2
IC552	B4
IC901	G4
L501	C2
L502	C2
L901	H5
Q1681	J5
Q1682	J5
Q501	B3
Q502	B3
Q505	E4
Q506	E4
Q901	G4
Q902	F4
Q937	J5
Q938	I4
S2	C1
S948	D4
S950	L5
S951	L5
S955	K5
S976	E2
SR2	A4
SW2	A4
VR502	B5
VR501	B3
VR511-1	E5
VR511-2	E5
VR512	D5
VR903	K3
W354	L3
W355	L4
Z891	J4



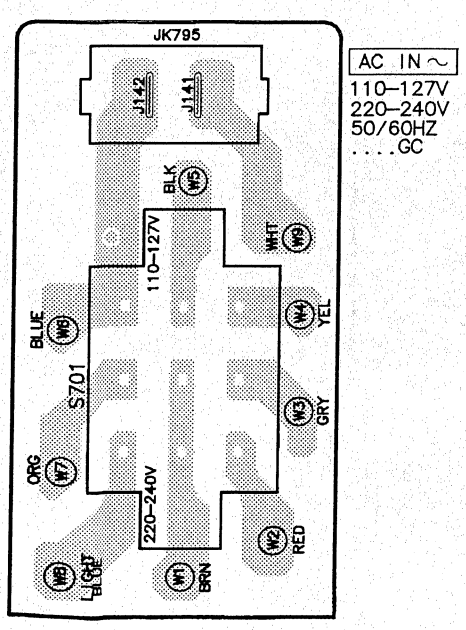
H OPERATION P.C.B. (REP2628J-S)



K AC-3 P.C.B. (REP2629F-P) ... GN (REP2629G-P) ... GC

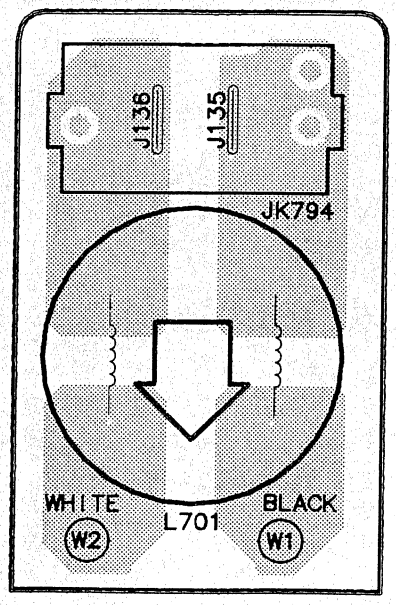


G AC IN/OUT P.C.B. (REP2629G-P) ... GC



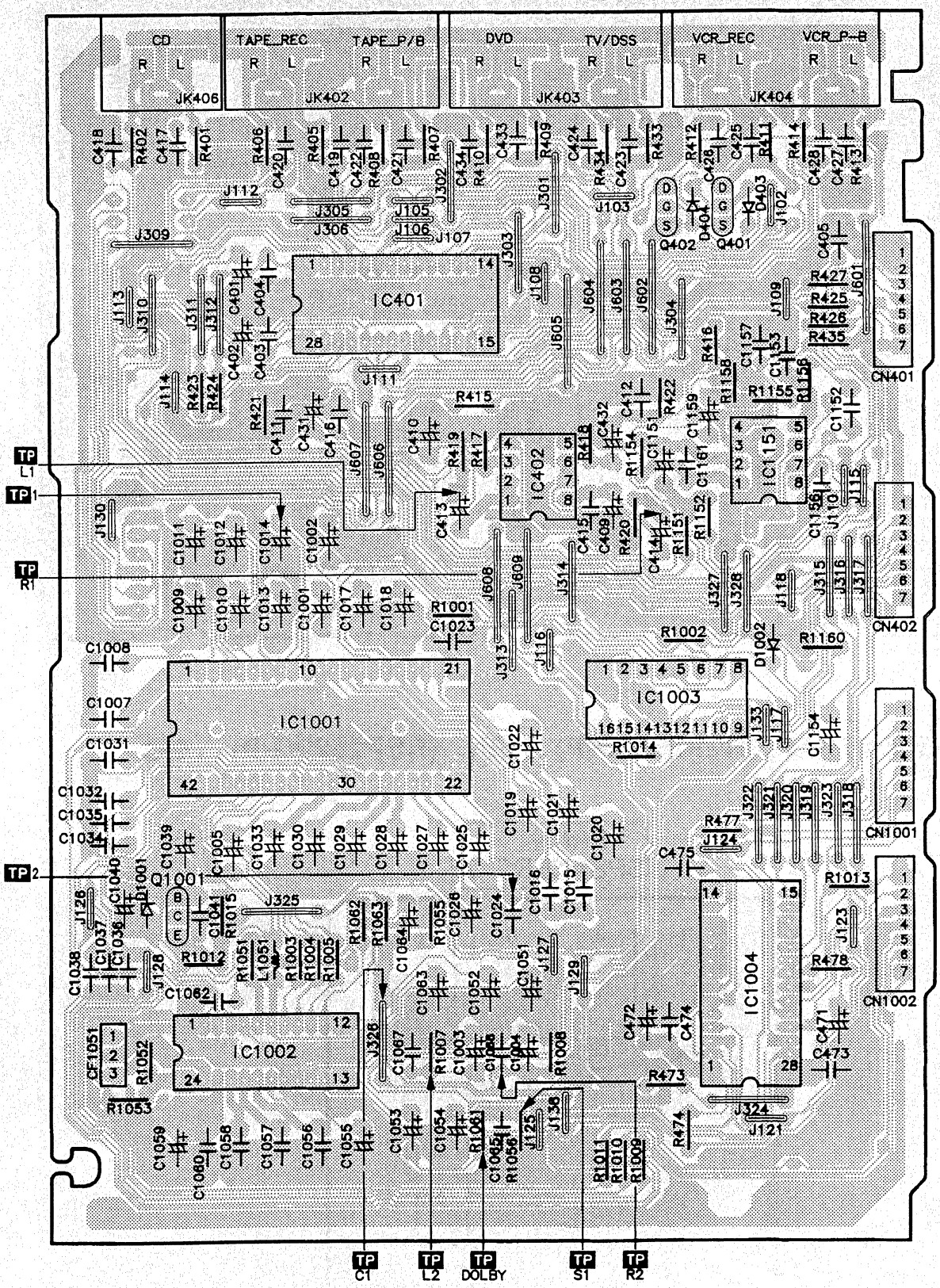
AC IN ~
110–127V
220–240V
50/60HZ
....GC

G AC IN/OUT P.C.B. (REP2629F-P) ... GN



AC IN ~
230–240V
50HZ....GN

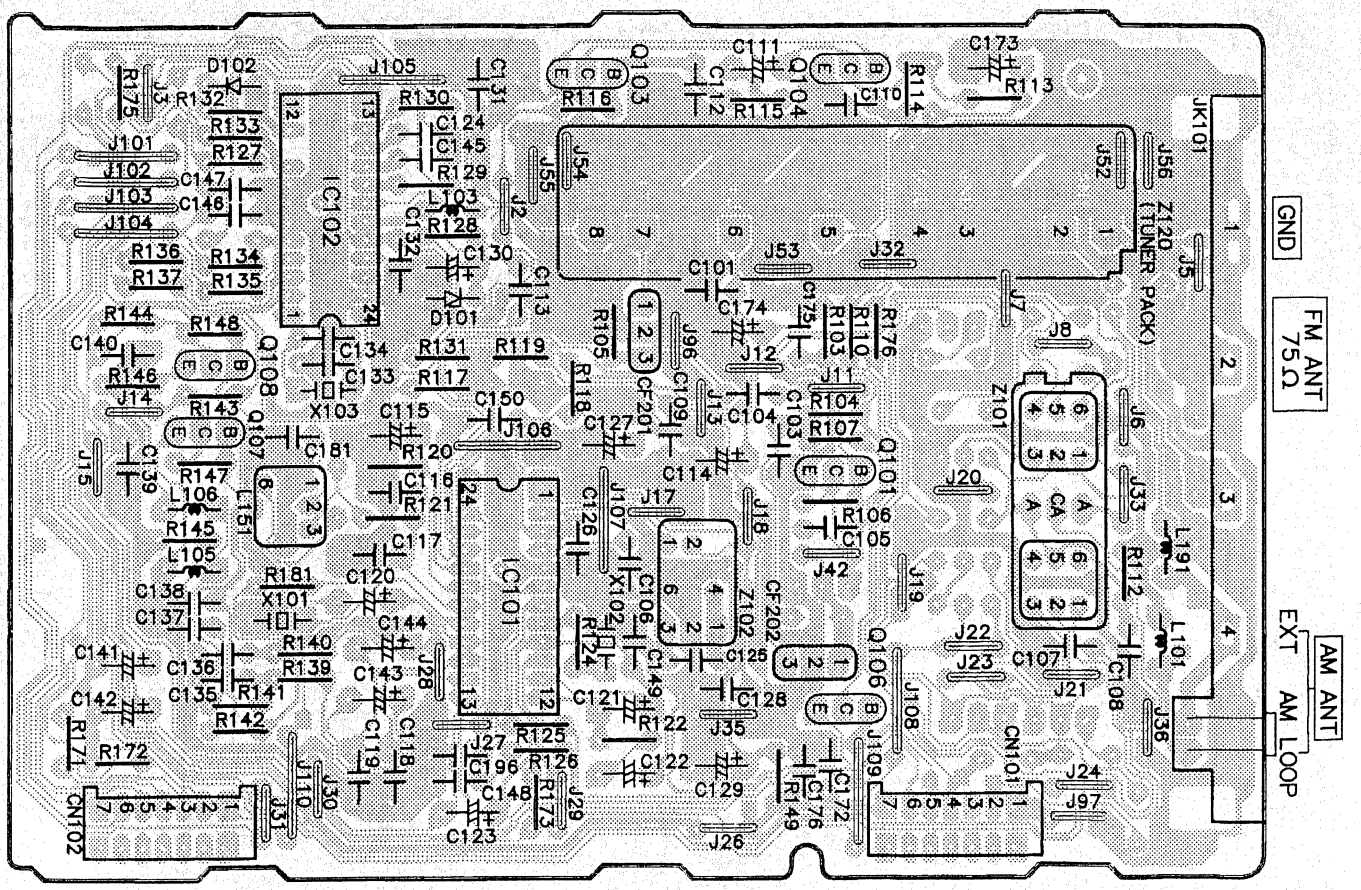
J PRO LOGIC P.C.B.(REP2629F-P) ... GN (REP2629G-P) ... GC



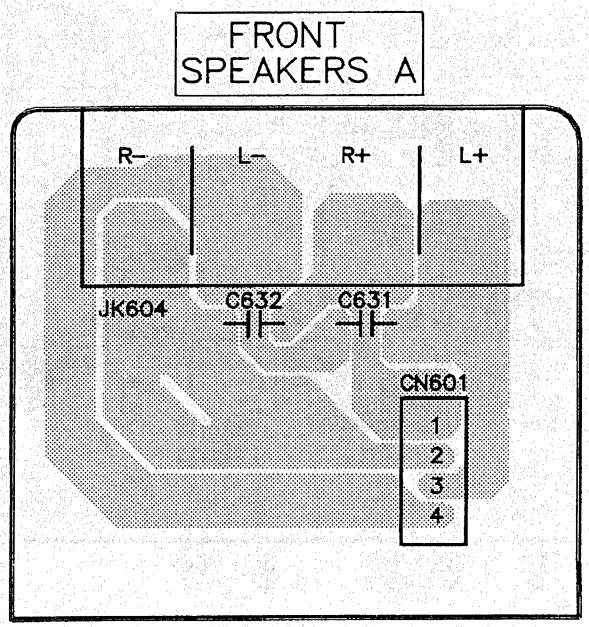
Semiconductors Locations Table

Ref. No	Loc. No
CN1001	G7
CN1002	G8
CN1003	E8
CN401	G4
CN402	G5
D1001	B7
D1002	F6
D403	F2
D404	F3
IC1001	C6
IC1002	C8
IC1003	E6
IC1004	F8
IC1151	F4
IC401	C3
IC402	D4
JK402	C2
JK403	D2
JK404	F2
JK406	B2
L1051	B8
Q1001	B7
Q401	F3
Q402	E3

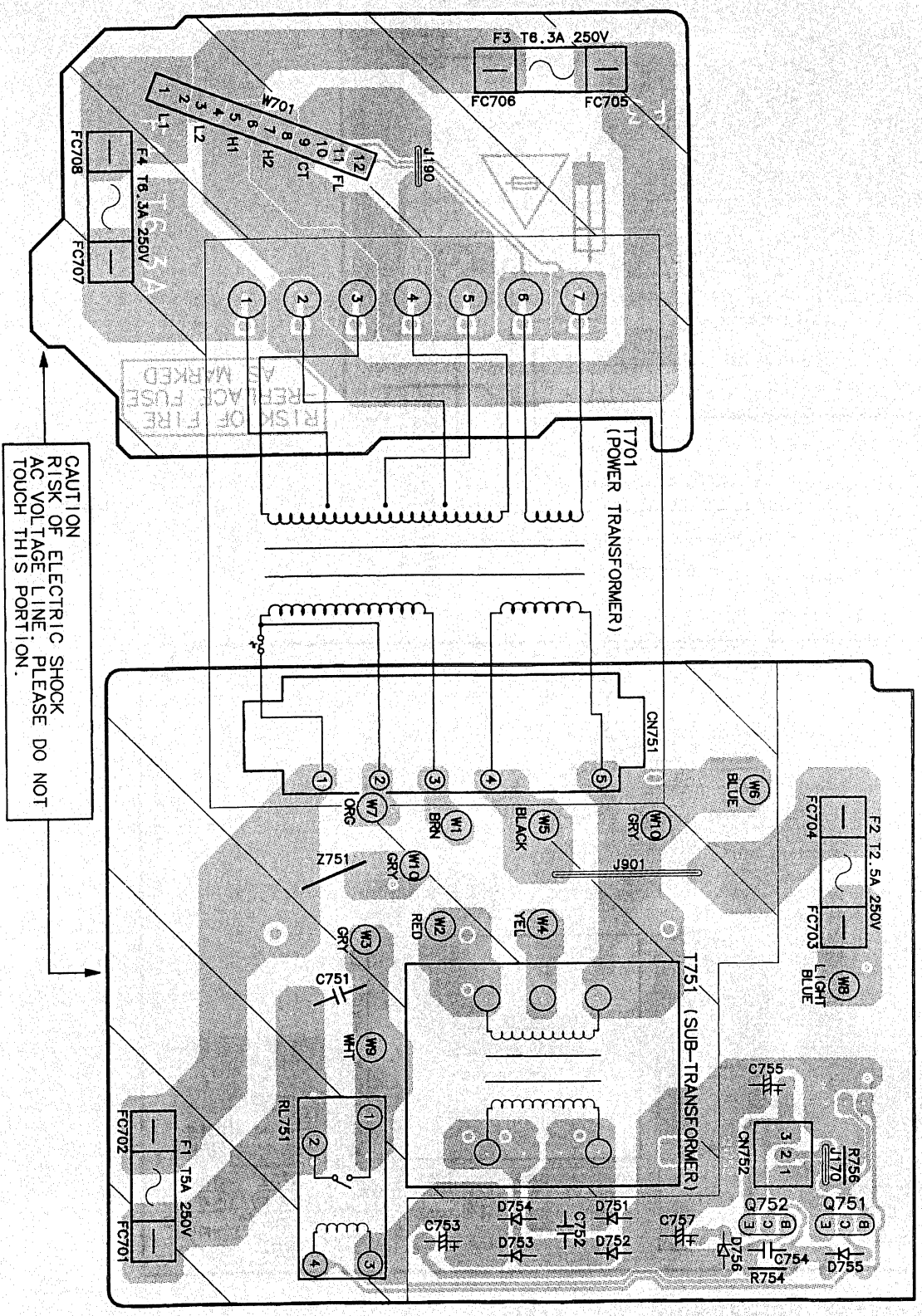
C TUNER P.C.B. (REP2254C-T)



L SPEAKER P.C.B. (REP2629F-P) ... GN (REP2629G-P) ... GC

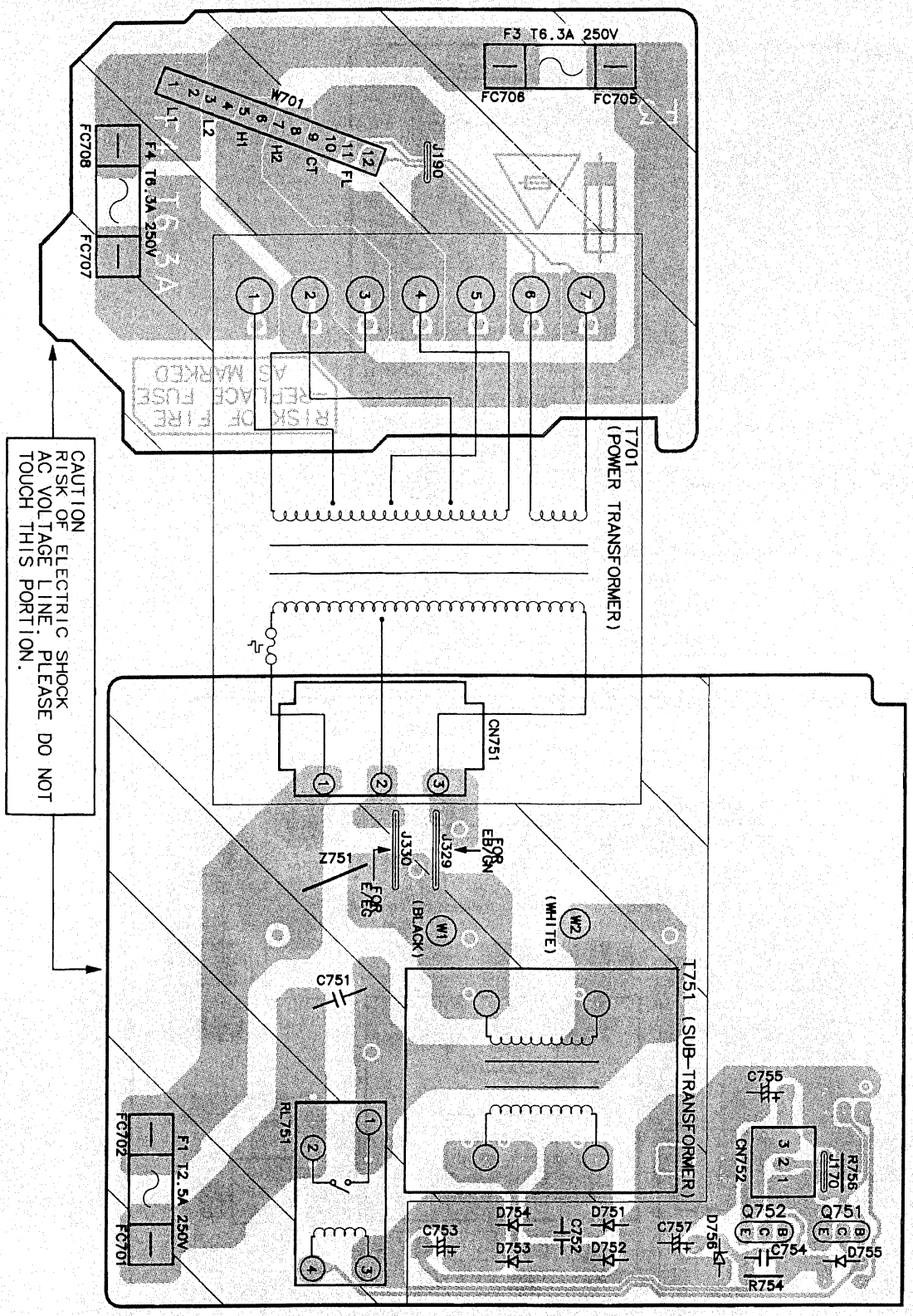


F TRANSFORMER P.C.B. (REP2627D-M) ... GC



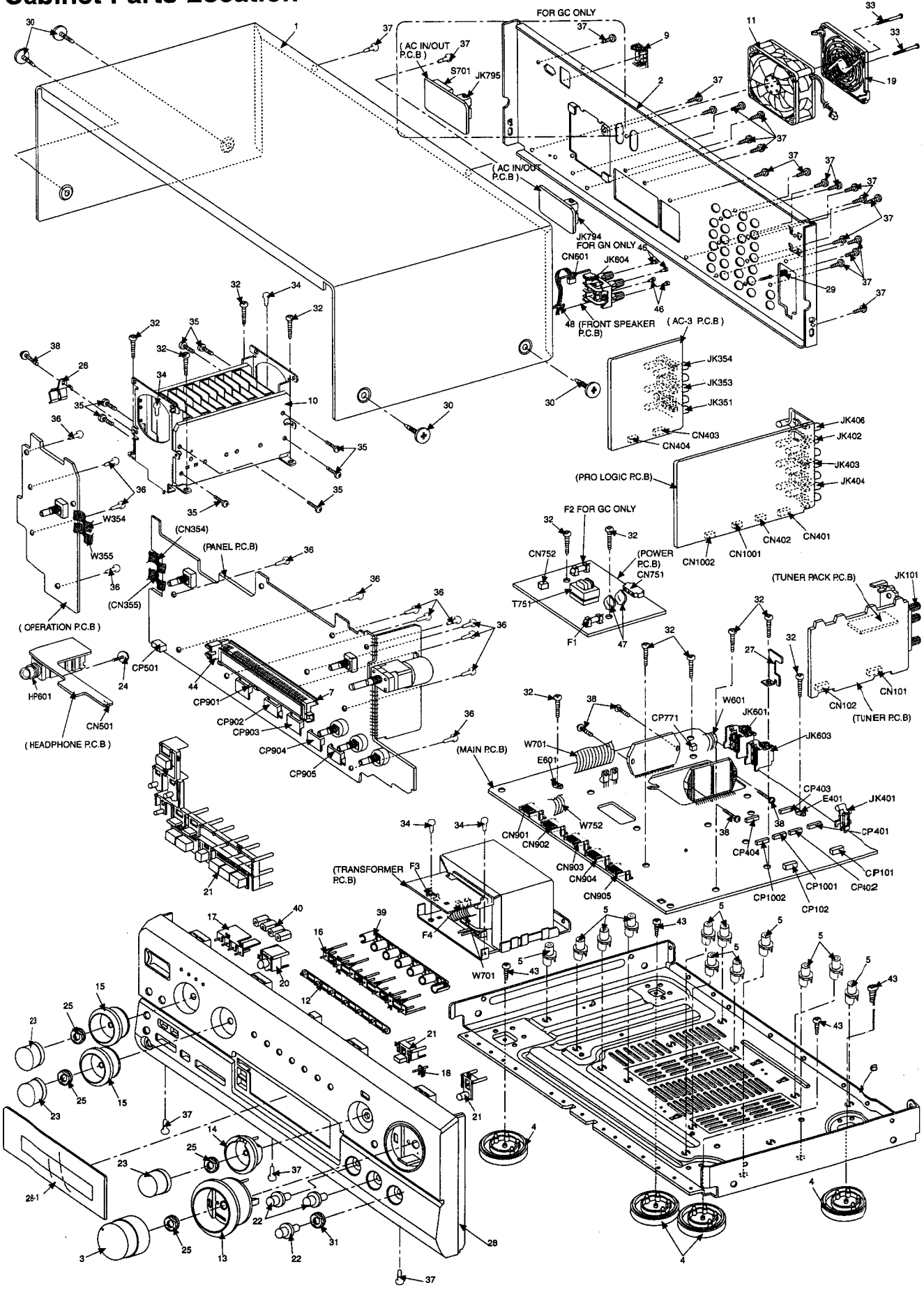
E POWER P.C.B. (REP2629G-P) ... GC

F TRANSFORMER P.C.B. (REP2627C-M) ... GN



E POWER P.C.B. (REP2629F-P) ... GN

■ Cabinet Parts Location



■ Replacement Parts List

Notes: * Important safety notice :
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
* The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indication can be used for all areas.
* [M] in Remarks column indicates parts that are supplied by **MESA**.

Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKM0375-K	TOP CABINET	[M]
2	RGR0265F-F	REAR PANEL	[M]GN
2	RGR0265H-B	REAR PANEL	[M]GC
3	RGW0278-K	VOLUME KNOB	[M]
4	RKA0079-A	LEG UNIT	[M]
5	RKQ0089-J	PCB HOLDER	[M]
6	RMK0350-3	BOTTOM CHASSIS	[M]
7	RMN0372A	FL HOLDER	[M]
9	SJS9231A	A/C INLET COVER	[M]
10	RXX0194	HEAT SINK UNIT	[M]
11	REM0080	FAN UNIT	[M]
12	RGK0992-N	LIGHT GUIDE RING	[M]
13	RGK0993-N	VOLUME RING	[M]
14	RGK0994-N	SELECTOR RING	[M]
15	RGK0995-N	PRO LOGIC RING	[M]
16	RGL0401-Q	LIGHT GUIDE	[M]
17	RGL0402-Q	P/L LIGHT GUIDE	[M]
18	RGL0403-Q	6CH LIGHT GUIDE	[M]
19	RGQ0231-K	FAN COVER	[M]
20	RGU1616-K	HELP BUTTON	[M]
21	RGU1617C-K	MODE BUTTON	[M]
22	RGW0279-K	TONE KNOB	[M]
23	RGW0280-K	SELECTOR KNOB	[M]
24	RHD26016	SCREW	[M]
25	RHN90001	M9 NUT	[M]
26	RMC0158-S	TRANSISTOR HOLDER	[M]
27	RMQ0709	TUNER PCB BRACKET	[M]
28	RFKGAAX730GK	FRONT PANEL ASS'Y	[M]
28-1	RKW0533F-Q	F/L WINDOW	[M]
29	SNE2123	EARTHTERMINAL	[M]
30	SNE2129-1	SCREW (CABINET)	[M]
31	SNE4021-1	M8 NUT	[M]
32	XTB3+20JFZ	SCREW	[M]
33	XTB3+35JFZ	SCREW (FAN)	[M]
34	XTB3+8FFZ	SCREW	[M]
35	XTB3+8JFZ	SCREW	[M]
36	XTBS26+10J	SCREW	[M]
37	XTBS3+8JFZ1	SCREW	[M]
38	XTW3+15T	SCREW	[M]
39	RMV0158	SEL LED COVER	[M]
40	RMV0159	P-L LED COVER	[M]
43	XTB3+6G	SCREW (FOOT)	[M]
44	RMN0502	LED HOLDER	[M]
46	RMR1165-K	SPEAKER COVER	[M]
47	RMZ0339	ZNR COVER	[M]
48	SHR301	WIRE CRAMPER	[M]
		INTEGRATED CIRCUITS	
IC101	LA1832A	IC, IF/MPX	[M]
IC102	LC7218	IC, PLL	[M]
IC351	NJM2279D	IC, VIDEO SELECTOR	[M]
IC352	NJM2060D	IC, OP AMP	[M]
IC401	TC9163AN	IC, SELECTOR	[M]
IC402	UPC4570C	IC, TONE CONTROL	[M]
IC451	AN6558F	IC, OP AMP	[M]
IC501	BA6218	IC, MOTOR DRIVER	[M]
IC511	UPC4570C	IC, TONE CONTROL	[M]
IC551	UPC4570C	IC, TONE CONTROL	[M]
IC552	UPC4570C	IC, TONE CONTROL	[M]
IC601	RSN310R36-P	IC, HIC	[M]
IC602	NJM2060D	IC, OP AMP	[M]
IC651	RSN3305-P	IC, HIC	[M]
IC901	M38B57M6120F	IC, MICRO COMPUTER	[M]
IC903	BU2090A	IC, EXPENDER	[M]
IC1001	LA2786L	IC, DPL	[M]
IC1002	LV1016L	IC, SURR DECODER	[M]
IC1003	TC9214AP	IC, SELECTOR	[M]
IC1004	TC9162AN	IC, SELECTOR	[M]
IC1151	UPC4570C	IC, TONE CONTROL	[M]
		TRANSISTORS	
Q101	2SC2787LTA	TRANSISTOR	[M]
Q103	2SC2785FETA	TRANSISTOR	[M]
Q104	2SC2785FETA	TRANSISTOR	[M]
Q106	RVTDTA143XST	TRANSISTOR	[M]
Q107	2SC3311ARTA	TRANSISTOR	[M]
Q108	2SC3311ARTA	TRANSISTOR	[M]
Q351	2SD592AQSTA	TRANSISTOR	[M] ⚠
Q352	2SB621AQSTA	TRANSISTOR	[M] ⚠
Q401	2SK2880CTA	TRANSISTOR	[M]
Q402	2SK2880CTA	TRANSISTOR	[M]
Q505	2SD1915FTA	TRANSISTOR	[M]
Q506	2SD1915FTA	TRANSISTOR	[M]
Q551	2SD1915FTA	TRANSISTOR	[M]
Q552	2SD1915FTA	TRANSISTOR	[M]
Q553	2SD1915FTA	TRANSISTOR	[M]
Q554	2SD1915FTA	TRANSISTOR	[M]
Q601	RVTDTA143XST	TRANSISTOR	[M]
Q602	RVTDTA143XST	TRANSISTOR	[M]
Q603	RVTDTA143XST	TRANSISTOR	[M]
Q604	RVTDTA114EST	TRANSISTOR	[M]
Q605	RVTDTA114EST	TRANSISTOR	[M] ⚠
Q609	RVTDTC114EST	TRANSISTOR	[M]
Q610	RVTDTC114TST	TRANSISTOR	[M]
Q651	RVTDTA143XST	TRANSISTOR	[M]
Q652	RVTDTA143XST	TRANSISTOR	[M]
Q701	2SD2374PQAU	TRANSISTOR	[M] ⚠
Q703	2SC1740SSTA	TRANSISTOR	[M] ⚠
Q704	2SC1740SSTA	TRANSISTOR	[M] ⚠
Q706	2SC3940AQSTA	TRANSISTOR	[M]
Q707	2SA1534AQRTA	TRANSISTOR	[M] ⚠
Q708	2SB1548PQAU	TRANSISTOR	[M] ⚠
Q751	RVTDTC143XST	TRANSISTOR	[M]
Q752	2SC3940AQSTA	TRANSISTOR	[M] ⚠
Q771	2SA933SSTA	TRANSISTOR	[M]
Q772	2SC1740SSTA	TRANSISTOR	[M]
Q773	2SB621AQSTA	TRANSISTOR	[M]
Q774	RVTDTA113ZST	TRANSISTOR	[M]
Q775	RVTDTA114EST	TRANSISTOR	[M]
Q776	2SC1740SSTA	TRANSISTOR	[M]
Q777	2SA933SSTA	TRANSISTOR	[M]
Q778	2SA933SSTA	TRANSISTOR	[M]
Q779	2SA933SSTA	TRANSISTOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
Q901	RVTDTC114YST	TRANSISTOR	[M]
Q902	2SA933SSTA	TRANSISTOR	[M] ⚠
Q937	RVTDTA114YST	TRANSISTOR	[M]
Q938	RVTDTC114YST	TRANSISTOR	[M]
Q1001	2SC3940AQSTA	TRANSISTOR	[M] ⚠
Q1681	2SD1915FTA	TRANSISTOR	[M]
Q1682	2SD1915FTA	TRANSISTOR	[M]
		DIODES	
D101	MTZJ5R1BTA	DIODE	[M] ⚠
D102	MA165TA	DIODE	[M]
D351	MTZJ5R6BTA	DIODE	[M] ⚠
D352	MTZJ5R6BTA	DIODE	[M] ⚠
D353	RVD1SS133TA	DIODE	[M]
D354	RVD1SS133TA	DIODE	[M]
D401	MTZJ7R5CTA	DIODE	[M]
D403	RVD1SS133TA	DIODE	[M]
D404	RVD1SS133TA	DIODE	[M]
D601	RK306LFU1	DIODE	[M]
D602	RK306LFU1	DIODE	[M]
D605	RVD1SS133TA	DIODE	[M]
D611	RVD1SS133TA	DIODE	[M]
D612	RVD1SS133TA	DIODE	[M]
D613	RVD1SS133TA	DIODE	[M]
D614	RVD1SS133TA	DIODE	[M]
D617	RVD1SS133TA	DIODE	[M]
D618	MTZJ11CTA	DIODE	[M]GC⚠
D618	MTZJ9R1CTA	DIODE	[M]GN⚠
D651	RK306LFU1	DIODE	[M]
D652	RK306LFU1	DIODE	[M]
D653	RVD1SS133TA	DIODE	[M]
D655	RVD1SS133TA	DIODE	[M]
D658	RVD1SS133TA	DIODE	[M]
D659	RVD1SS133TA	DIODE	[M]
D660	RVD1SS133TA	DIODE	[M]
D701	1N5402BM21	DIODE	[M] ⚠
D702	1N5402BM21	DIODE	[M] ⚠
D703	1N5402BM21	DIODE	[M] ⚠
D704	1N5402BM21	DIODE	[M] ⚠
D705	MTZJ6R2BTA	DIODE	[M] ⚠
D707	MTZJ27DTA	DIODE	[M] ⚠
D708	MTZJ15CTA	DIODE	[M] ⚠
D721	1N5402BM21	DIODE	[M] ⚠
D722	1N5402BM21	DIODE	[M] ⚠
D723	1N5402BM21	DIODE	[M] ⚠
D724	1N5402BM21	DIODE	[M] ⚠
D725	1N5402BM21	DIODE	[M] ⚠

Ref No.	Part No.	Part Name & Description	Remarks
D726	1N5402BM21	DIODE	[M] ⚠
D727	1N5402BM21	DIODE	[M] ⚠
D728	1N5402BM21	DIODE	[M] ⚠
D751	1SR35200TB	DIODE	[M] ⚠
D752	1SR35200TB	DIODE	[M] ⚠
D753	1SR35200TB	DIODE	[M] ⚠
D754	1SR35200TB	DIODE	[M] ⚠
D755	RVD1SS133TA	DIODE	[M] ⚠
D756	MTZJ6R8BTA	DIODE	[M] ⚠
D771	MA700ATA	DIODE	[M]
D772	MA700ATA	DIODE	[M]
D773	MTZJ9R1CTA	DIODE	[M]
D774	RVD1SS133TA	DIODE	[M]
D781	MA700ATA	DIODE	[M]
D782	MA700ATA	DIODE	[M]
D901	1SS291TA	DIODE	[M]
D903	MTZJ4R7BTA	DIODE	[M]
D905	MA167ATA	DIODE	[M]
D910	MA167ATA	DIODE	[M]
D921	RVD1SS133TA	DIODE	[M]
D923	RVD1SS133TA	DIODE	[M]
D924	MTZJ3R9ATA	DIODE	[M] ⚠
D928	LN446YPH	DIODE	[M]
D929	LN846RPH	DIODE	[M]
D931	SLR325VCT31	DIODE	[M]
D932	SLR325VCT31	DIODE	[M]
D933	SLR325VCT31	DIODE	[M]
D934	SLR325VCT31	DIODE	[M]
D935	SLR325VCT31	DIODE	[M]
D936	SLR325VCT31	DIODE	[M]
D937	SLR325VCT31	DIODE	[M]
D938	SLR325VCT31	DIODE	[M]
D939	SLR325VCT31	DIODE	[M]
D940	SLR325VCT31	DIODE	[M]
D941	SLR325VCT31	DIODE	[M]
D942	SLR325MCT31	DIODE	[M]
D1001	MTZJ10CTA	DIODE	[M] ⚠
D1002	MA700ATA	DIODE	[M]
		VARIABLE RESISTORS	
VR501	EUWM6A026B15	VR, MOTOR VOLUME	[M]
VR502	EWC0YAF20G15	VR, BALANCE CONTROL	[M]
VR511	EWC1XA020C15	VR, TONE CONTROL	[M]
VR512	EWC1XA020C15	VR, TONE CONTROL	[M]
VR901	EVQVBHFK112B	VR, BALANCE CONTROL	[M]
VR902	EVQVBHFK112B	VR, BALANCE CONTROL	[M]
VR903	EVQVBHFK112B	VR, BALANCE CONTROL	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		SWITCHES	
S701	ESD26840A	SW, VOLTAGE ADJ	[M]GC
S946	EVQ21405R	SW, POWER	[M]
S948	EVQ21405R	SW, MUTING	[M]
S950	EVQ21405R	SW, FM MODE	[M]
S951	EVQ21405R	SW, BAND	[M]
S952	EVQ21405R	SW, TUNING DOWN	[M]
S953	EVQ21405R	SW, TUNING UP	[M]
S954	EVQ21405R	SW, DISPLAY	[M]
S955	EVQ21405R	SW, MEMORY	[M]
S956	EVQ21405R	SW, TUNING MODE	[M]
S958	EVQ21405R	SW, HELP	[M]
S976	EVQ21405R	SW, DVD - 6CH	[M]
S980	EVQ21405R	SW, SPEAKER A	[M]
S981	EVQ21405R	SW, SPEAKER B	[M]
S985	EVQ21405R	SW, CENTRE MODE	[M]
S986	EVQ21405R	SW, DELAY	[M]
		CONNECTORS	
CN101	RJU057W007	7P CONNECTOR	[M]
CN102	RJU057W007	7P CONNECTOR	[M]
CN401	RJU100W07	7P CONNECTOR	[M]
CN402	RJU100W07	7P CONNECTOR	[M]
CN403	RJU100W07	7P CONNECTOR	[M]
CN404	RJU100W07	7P CONNECTOR	[M]
CN501	RJU100W04	4P CONNECTOR	[M]
CN601	RJS4T6ZA	4P CONNECTOR	[M]
CN751	SJS305-1	3P CONNECTOR	[M]GN
CN751	SJS702-1	SOCKET	[M]GC
CN752	RJS1A6603T1	3P TAPING CONNECTOR	[M]
CN901	RJU003K010M1	10P B/B CONNECTOR	[M]
CN902	RJU003K010M1	10P B/B CONNECTOR	[M]
CN903	RJU003K010M1	10P B/B CONNECTOR	[M]
CN904	RJU003K010M1	10P B/B CONNECTOR	[M]
CN905	RJU003K010M1	10P B/B CONNECTOR	[M]
CN1001	RJU100W07	7P CONNECTOR	[M]
CN1002	RJU100W07	7P CONNECTOR	[M]
CP101	RJT057W007-1	7P CONNECTOR	[M]
CP102	RJT057W007-1	7P CONNECTOR	[M]
CP401	RJT100W07	7P CONNECTOR	[M]
CP402	RJT100W07	7P CONNECTOR	[M]
CP403	RJT100W07	7P CONNECTOR	[M]
CP404	RJT100W07	7P CONNECTOR	[M]
CP501	RJT100W04	4P CONNECTOR	[M]
CP771	SJT3213	CONNECTOR (FAN)	[M]
CP901	RJT003K010M1	10P CONNECTOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
CP902	RJT003K010M1	10P CONNECTOR	[M]
CP903	RJT003K010M1	10P CONNECTOR	[M]
CP904	RJT003K010M1	10P CONNECTOR	[M]
CP905	RJT003K010M1	10P CONNECTOR	[M]
CP1001	RJT100W07	7P CONNECTOR	[M]
CP1002	RJT100W07	7P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L101	ELESN1R0MA	CHOKE COIL	[M]
L103	ELEXTR47MA9	CHOKE COIL	[M]
L105	RLQZB822KT-D	TAPING COIL	[M]
L106	RLQZB822KT-D	TAPING COIL	[M]
L151	SLM1B10-1M	A.B. FILTER	[M]
L191	ELESNR56MA	CHOKE COIL	[M]
L501	RLQZP1R0KT-Y	AXIAL COIL	[M]
L502	RLQZP1R0KT-Y	AXIAL COIL	[M]
L602	RLQYR73MW-E	CHOKE COIL	[M]
L603	RLQYR73MW-E	CHOKE COIL	[M]
L604	RLQYR73MW-E	CHOKE COIL	[M]
L651	RLQYR73MW-E	CHOKE COIL	[M]
L652	RLQYR73MW-E	CHOKE COIL	[M]
L701	SLQZ650MH49	AC LINE COIL	[M]GN
L751	RLQB101KTA-Y	CHOKE COIL	[M]
L901	RLQB101KTA-Y	CHOKE COIL	[M]
L1051	RLQB101KTA-Y	CHOKE COIL	[M]
T701	RTP1Q5B005-V	POWER TRANSFORMER	[M]GN⚠
T701	RTP1Q5E020-V	POWER TRANSFORMER	[M]GC⚠
T751	RTP1I5E006	POWER TRANSFORMER	[M]GN⚠
T751	RTP1I5E007	SUB POWER TRANSFORMER	[M]GC⚠
		COMPONENT COMBINATION	
Z101	RLA2Z002M-T	AM ANT. COIL	[M]
Z102	RLI2Z006M-T	AM IFT	[M]
Z120	ENV17290G1Y	FM TUNER PACK	[M]
Z751	ERZV10V511CS	ZNR	[M] ⚠
Z891	RCD12042TE	REMOTE SENSOR	[M]
		CERAMIC FILTERS	
CF201	RLFFETNGD01L	CERAMIC CAPACITOR	[M]
CF202	RLFFETMGD01L	CERAMIC FILTER	[M]
CF901	RVBCST4R00MT	CERAMIC OSCILLATOR	[M]
CF1051	RSXY8M00D01T	CERAMIC OSILLATOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		RELAY	
RL601	RSY0013M-0	RELAY	[M]
RL602	RSY0013M-0	RELAY	[M]
RL603	RSY0013M-0	RELAY	[M]
RL604	RSY0013M-0	RELAY	[M]
RL751	RSY0019M-0	12V TV-5 RELAY	[M] ⚠
		OSCILLATORS	
X101	RSXZ456KM07M	CERAMIC OSCILLATOR	[M]
X102	RLFDGTD01I	FM REZONATOR	[M]
X103	RSXD7M20C01	CRYSTAL 7.2 MHZ	[M]
		DISPLAY TUBE	
FL901	RSL0254-F	FL	[M]
		FUSES	
F1	XBA2C25TB0	FUSE ⚠	[M]GN
F1	XBA2C50TB0	FUSE ⚠	[M]GC
F2	XBA2C25TB0	FUSE ⚠	[M]GC
F3	XBA2C63TB0	FUSE ⚠	[M]
F4	XBA2C63TB0	FUSE ⚠	[M]
		FUSE HOLDERS	
FC701	RJR0169T	FUSE HOLDER	[M]
FC702	RJR0169T	FUSE HOLDER	[M]
FC703	RJR0169T	FUSE HOLDER	[M]GC
FC704	RJR0169T	FUSE HOLDER	[M]GC
FC705	RJR0169T	FUSE HOLDER	[M]
FC706	RJR0169T	FUSE HOLDER	[M]
FC707	RJR0169T	FUSE HOLDER	[M]
FC708	RJR0169T	FUSE HOLDER	[M]
		JACKS	
HP601	RJJ63TA01	HP JACK	[M]
JK101	RJH4202-1	IC, ANT TERMINAL	[M]
JK351	RJH3210N	JK, 2P RCA PIN	[M]
JK353	SJF3069-3N	JK, RCA PIN	[M]
JK354	SJF3069-16N	JK, RCA TERMINAL	[M]
JK401	SJF3068-7N	JK, RCA TERMINAL	[M]
JK402	SJF3069N	JK, LINE IN	[M]
JK403	SJF3069N	JK, LINE IN	[M]
JK404	SJF3069N	JK, LINE IN	[M]

Ref No.	Part No.	Part Name & Description	Remarks
JK406	SJF3068-7N	JK, RCA TERMINAL	[M]
JK601	RJH5601	JK, SP TERMINAL	[M]
JK603	RJR0054	JK, SP TERMINAL	[M]
JK604	RJH4410	JK, SPEAKER	[M]
JK794	SJS9231-1B	JK, SOCKET ⚠	[M]GN
JK795	SJS9231-1B	JK, SOCKET ⚠	[M]GC
		EARTH TERMINAL	
E401	SNE1004-2	EARTH TERMINAL	[M]
E601	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REE0869	WIRE UNIT	[M]GC
W1	REE0889	WIRE	[M]GN
W2	REE0870	WIRE UNIT	[M]GC
W2	REE0890	WIRE	[M]GN
W3	REE0871	WIRE UNIT	[M]GC
W4	REE0872	WIRE UNIT	[M]GC
W5	REE0873	WIRE UNIT	[M]GC
W6	REE0874	WIRE UNIT	[M]GC
W7	REE0875	WIRE UNIT	[M]GC
W8	REE0876	WIRE UNIT	[M]GC
W9	REE0877	WIRE UNIT	[M]GC
W10	REE0878	WIRE UNIT	[M]GC
W354	RWJ1807200KK	7P WIRE	[M]
W355	RWJ1807200KK	7P WIRE	[M]
W601	RWJ1804160KQ	SPK TERMINAL WIRE	[M]
W701	RWJ1812220CC	WIRE UNIT	[M]
W752	RWJ1803290CQ	WIRE	[M]

■ Resistors & Capacitors

Notes : • Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors),etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
• The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indication can be used for all areas.
• [M] in Remarks column indicates parts that are supplied by **MESA**.
• Capacitor values are in microfarad (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
• Resistors values are in ohms, unless specified otherwise, 1k=1,000(OHM), 1M=1,000k(OHM)

Ref No.	Part No.	Values & Remarks
	RESISTORS	
R103	ERDS2TJ101T	100 1/4W [M]
R104	ERDS2TJ102T	1K 1/4W [M]
R105	ERDS2TJ471T	470 1/4W [M]
R106	ERDS2TJ224T	220K 1/4W [M]
R107	ERDS2TJ471T	470 1/4W [M]
R110	ERDS2TJ102T	1K 1/4W [M]
R112	ERDS2TJ104T	100K 1/4W [M]
R113	ERDS2TJ103T	10K 1/4W [M]
R114	ERDS2TJ562T	5.6K 1/4W [M]
R115	ERDS2TJ561T	560 1/4W [M]
R116	ERDS2TJ102T	1K 1/4W [M]
R117	ERDS2TJ473T	47K 1/4W [M]
R118	ERDS2TJ562T	5.6K 1/4W [M]
R119	ERDS2TJ183T	18K 1/4W [M]
R120	ERDS2TJ473T	47K 1/4W [M]
R121	ERDS2TJ332T	3.3K 1/4W [M]
R122	ERDS2TJ272T	2.7K 1/4W [M]
R124	ERDS2TJ301T	300 1/4W [M]
R125	ERDS2TJ472T	4.7K 1/4W [M]
R126	ERDS2TJ472T	4.7K 1/4W [M]
R127	ERDS2TJ103T	10K 1/4W [M]
R128	ERDS2TJ820T	82 1/4W [M]
R129	ERDS2TJ473T	47K 1/4W [M]
R130	ERDS2TJ102T	1K 1/4W [M]
R131	ERDS2TJ102T	1K 1/4W [M]
R132	ERDS2TJ103T	10K 1/4W [M]
R133	ERDS2TJ102T	1K 1/4W [M]
R134	ERDS2TJ102T	1K 1/4W [M]
R135	ERDS2TJ102T	1K 1/4W [M]
R136	ERDS2TJ102T	1K 1/4W [M]
R137	ERDS2TJ102T	1K 1/4W [M]
R139	ERDS2TJ272T	2.7K 1/4W [M]
R140	ERDS2TJ272T	2.7K 1/4W [M]
R141	ERDS2TJ102T	1K 1/4W [M]
R142	ERDS2TJ102T	1K 1/4W [M]
R143	ERDS2TJ222T	2.2K 1/4W [M]
R144	ERDS2TJ222T	2.2K 1/4W [M]
R145	ERDS2TJ821T	820 1/4W [M]
R146	ERDS2TJ821T	820 1/4W [M]
R147	ERDS2TJ474T	470K 1/4W [M]
R148	ERDS2TJ474T	470K 1/4W [M]
R149	ERDS2TJ680T	68 1/4W [M]
R171	ERDS2TJ102T	1K 1/4W [M]
R172	ERDS2TJ102T	1K 1/4W [M]
R173	ERDS2TJ471T	470 1/4W [M]
R175	ERDS2TJ102T	1K 1/4W [M]
R176	ERDS2TJ391T	390 1/4W [M]
R181	ERDS2TJ332T	3.3K 1/4W [M]
R301	ERDS2TJ750T	75 1/4W [M]
R302	ERDS2TJ750T	75 1/4W [M]
R303	ERDS2TJ750T	75 1/4W [M]
R341	ERDS2TJ103T	10K 1/4W [M]
R342	ERDS2TJ104T	100K 1/4W [M]
R343	ERDS2TJ104T	100K 1/4W [M]
R344	ERDS2TJ104T	100K 1/4W [M]
R345	ERDS2TJ103T	10K 1/4W [M]
R346	ERDS2TJ103T	10K 1/4W [M]
R347	ERDS2TJ104T	100K 1/4W [M]
R348	ERDS2TJ104T	100K 1/4W [M]
R349	ERDS2TJ104T	100K 1/4W [M]
R350	ERDS2TJ104T	100K 1/4W [M]
R351	ERDS2TJ104T	100K 1/4W [M]
R352	ERDS2TJ104T	100K 1/4W [M]
R359	ERDS2TJ750T	75 1/4W [M]
R362	ERDS2TJ750T	75 1/4W [M]
R367	ERDS2TJ102T	1K 1/4W [M]
R368	ERDS2TJ102T	1K 1/4W [M]
R369	ERDS2TJ182T	1.8K 1/4W [M]
R370	ERDS2TJ182T	1.8K 1/4W [M]
R371	ERD2FCVG220T	22 1/4W [M]
R372	ERD2FCVG220T	22 1/4W [M]
R373	ERDS2TJ103T	10K 1/4W [M]
R374	ERDS2TJ103T	10K 1/4W [M]
R375	ERDS2TJ103T	10K 1/4W [M]
R401	ERDS2TJ102T	1K 1/4W [M]
R402	ERDS2TJ102T	1K 1/4W [M]
R405	ERDS2TJ102T	1K 1/4W [M]
R406	ERDS2TJ102T	1K 1/4W [M]
R407	ERDS2TJ102T	1K 1/4W [M]
R408	ERDS2TJ102T	1K 1/4W [M]
R409	ERDS2TJ102T	1K 1/4W [M]
R410	ERDS2TJ102T	1K 1/4W [M]
R411	ERDS2TJ102T	1K 1/4W [M]
R412	ERDS2TJ102T	1K 1/4W [M]
R413	ERDS2TJ102T	1K 1/4W [M]
R414	ERDS2TJ102T	1K 1/4W [M]
R415	ERDS2TJ102T	1K 1/4W [M]
R416	ERDS2TJ102T	1K 1/4W [M]
R417	ERDS2TJ473T	47K 1/4W [M]
R418	ERDS2TJ473T	47K 1/4W [M]
R419	ERDS2TJ104T	100K 1/4W [M]
R420	ERDS2TJ104T	100K 1/4W [M]
R421	ERDS2TJ104T	100K 1/4W [M]
R422	ERDS2TJ104T	100K 1/4W [M]
R423	ERDS2TJ102T	1K 1/4W [M]
R424	ERDS2TJ102T	1K 1/4W [M]
R425	ERDS2TJ103T	10K 1/4W [M]
R426	ERDS2TJ103T	10K 1/4W [M]
R427	ERDS2TJ103T	10K 1/4W [M]
R428	ERDS2TJ332T	3.3K 1/4W [M]
R433	ERDS2TJ102T	1K 1/4W [M]
R434	ERDS2TJ102T	1K 1/4W [M]
R435	ERDS2TJ473T	47K 1/4W [M]
R440	ERDS1FVJ560T ⚠	56 1/2W [M]
R441	ERDS2TJ473T	47K 1/4W [M]
R442	ERDS2TJ473T	47K 1/4W [M]
R443	ERDS1FVJ560T ⚠	56 1/2W [M]
R451	ERDS2TJ224T	220K 1/4W [M]
R452	ERDS2TJ224T	220K 1/4W [M]
R453	ERDS2TJ391T	390 1/4W [M]
R454	ERDS2TJ391T	390 1/4W [M]
R455	ERDS2TJ563T	56K 1/4W [M]
R456	ERDS2TJ563T	56K 1/4W [M]
R457	ERDS2TJ271T	270 1/4W [M]
R458	ERDS2TJ271T	270 1/4W [M]
R459	ERDS2TJ680T	68 1/4W [M]
R460	ERDS2TJ680T	68 1/4W [M]
R461	ERDS2TJ184T	180K 1/4W [M]
R462	ERDS2TJ184T	180K 1/4W [M]
R463	ERDS2TJ123T	12K 1/4W [M]
R464	ERDS2TJ123T	12K 1/4W [M]
R465	ERDS2TJ563T	56K 1/4W [M]
R466	ERDS2TJ563T	56K 1/4W [M]
R469	ERDS2TJ102T	1K 1/4W [M]
R470	ERDS2TJ102T	1K 1/4W [M]
R473	ERDS2TJ102T	1K 1/4W [M]
R474	ERDS2TJ102T	1K 1/4W [M]
R477	ERDS2TJ103T	10K 1/4W [M]
R478	ERDS2TJ104T	100K 1/4W [M]
R479	ERDS2TJ393T	39K 1/4W [M]
R480	ERDS2TJ393T	39K 1/4W [M]
R481	ERDS2TJ393T	39K 1/4W [M]
R485	ERDS2TJ104T	100K 1/4W [M]
R486	ERDS2TJ102T	1K 1/4W [M]
R491	ERDS2TJ102T	1K 1/4W [M]
R492	ERDS2TJ102T	1K 1/4W [M]
R493	ERDS2TJ102T	1K 1/4W [M]
R494	ERDS2TJ102T	1K 1/4W [M]
R501	ERDS2TJ222T	2.2K 1/4W [M]
R502	ERDS2TJ222T	2.2K 1/4W [M]
R503	ERDS2TJ103T	10K 1/4W [M]
R504	ERDS2TJ103T	10K 1/4W [M]
R505	ERDS2TJ103T	10K 1/4W [M]
R506	ERDS2TJ103T	10K 1/4W [M]
R508	ERDS1FVJ2R2T ⚠	2.2 1/2W [M]
R509	ERDS2TJ103T	10K 1/4W [M]
R510	ERDS2TJ103T	10K 1/4W [M]
R511	ERDS2TJ471T	470 1/4W [M]
R512	ERDS2TJ471T	470 1/4W [M]
R513	ERDS2TJ474T	470K 1/4W [M]
R514	ERDS2TJ474T	470K 1/4W [M]
R515	ERDS2TJ474T	470K 1/4W [M]
R516	ERDS2TJ474T	470K 1/4W [M]
R517	ERDS2TJ182T	18K 1/4W [M]
R518	ERDS2TJ182T	18K 1/4W [M]
R519	ERDS2TJ332T	33K 1/4W [M]
R520	ERDS2TJ332T	33K 1/4W [M]
R521	ERDS2TJ223T	2K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R522	ERDS2TJ223T	22K 1/4W [M]
R523	ERDS2TJ392T	3.9K 1/4W [M]
R524	ERDS2TJ392T	3.9K 1/4W [M]
R525	ERDS2TJ222T	2.2K 1/4W [M]
R526	ERDS2TJ222T	2.2K 1/4W [M]
R527	ERDS2TJ122T	1.2K 1/4W [M]
R528	ERDS2TJ122T	1.2K 1/4W [M]
R529	ERDS2TJ273T	27K 1/4W [M]
R530	ERDS2TJ273T	27K 1/4W [M]
R531	ERDS2TJ332T	3.3K 1/4W [M]
R532	ERDS2TJ332T	3.3K 1/4W [M]
R533	ERDS2TJ473T	47K 1/4W [M]
R534	ERDS2TJ473T	47K 1/4W [M]
R535	ERDS2TJ272T	2.7K 1/4W [M]
R536	ERDS2TJ272T	2.7K 1/4W [M]
R537	ERDS2TJ103T	10K 1/4W [M]
R538	ERDS2TJ103T	10K 1/4W [M]
R543	ERDS2TJ102T	1K 1/4W [M]
R544	ERDS2TJ102T	1K 1/4W [M]
R545	ERDS2TJ684T	680K 1/4W [M]
R546	ERDS2TJ223T	22K 1/4W [M]
R550	ERDS2TJ103T	10K 1/4W [M]
R551	ERDS2TJ102T	1K 1/4W [M]
R552	ERDS2TJ102T	1K 1/4W [M]
R553	ERDS2TJ104T	100K 1/4W [M]
R554	ERDS2TJ104T	100K 1/4W [M]
R555	ERDS2TJ223T	22K 1/4W [M]
R556	ERDS2TJ223T	22K 1/4W [M]
R557	ERDS2TJ821T	820 1/4W [M]
R558	ERDS2TJ821T	820 1/4W [M]
R561	ERDS2TJ102T	1K 1/4W [M]
R562	ERDS2TJ102T	1K 1/4W [M]
R563	ERDS2TJ104T	100K 1/4W [M]
R564	ERDS2TJ104T	100K 1/4W [M]
R565	ERDS2TJ223T	22K 1/4W [M]
R566	ERDS2TJ103T	10K 1/4W [M]
R567	ERDS2TJ821T	820 1/4W [M]
R568	ERDS2TJ681T	680 1/4W [M]
R571	ERDS2TJ223T	22K 1/4W [M]
R572	ERDS2TJ223T	22K 1/4W [M]
R573	ERDS2TJ223T	22K 1/4W [M]
R574	ERDS2TJ223T	22K 1/4W [M]
R575	ERDS2TJ223T	22K 1/4W [M]
R576	ERDS2TJ223T	22K 1/4W [M]
R583	ERDS2TJ272T	2.7K 1/4W [M]
R584	ERDS2TJ272T	2.7K 1/4W [M]
R585	ERDS2TJ103T	10K 1/4W [M]
R586	ERDS2TJ103T	10K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R595	ERDS2TJ102T	1K 1/4W [M]
R596	ERDS2TJ102T	1K 1/4W [M]
R597	ERDS2TJ102T	1K 1/4W [M]
R598	ERDS2TJ102T	1K 1/4W [M]
R603	ERDS2TJ182T	1.8K 1/4W [M]
R604	ERDS2TJ182T	1.8K 1/4W [M]
R605	ERDS2TJ221T	220 1/4W [M]
R606	ERDS2TJ221T	220 1/4W [M]
R607	ERDS2TJ563T	56K 1/4W [M]
R608	ERDS2TJ563T	56K 1/4W [M]
R609	ERDS2TJ470T	47 1/4W [M]
R610	ERDS2TJ470T	47 1/4W [M]
R611	ERDS1FVJ100T ⚠	10 1/2W [M]
R612	ERDS1FVJ100T ⚠	10 1/2W [M]
R613	ERDS2TJ152T	1.5K 1/4W [M]
R614	ERDS2TJ152T	1.5K 1/4W [M]
R615	ERDS2TJ681T	680 1/4W [M]
R616	ERD25FVJ220T	22 1/4W [M]GC
R616	ERD25FVJ820T	82 1/4W [M]GN
R617	ERD25FVJ220T	22 1/4W [M]GC
R617	ERD25FVJ820T	82 1/4W [M]GN
R618	ERD25FVJ220T	22 1/4W [M]GC
R618	ERD25FVJ820T	82 1/4W [M]GN
R619	ERD25FVJ220T	22 1/4W [M]GC
R619	ERD25FVJ820T	82 1/4W [M]GN
R620	ERD25FVJ220T	22 1/4W [M]
R621	ERDS2TJ682T	6.8K 1/4W [M]
R622	ERDS2TJ682T	6.8K 1/4W [M]
R623	ERDS2TJ682T	6.8K 1/4W [M]
R624	ERD25FVJ4R7T	4.7 1/4W [M]
R625	ERG1SJ101E ⚠	100 1W [M]
R626	ERG1SJ101E ⚠	100 1W [M]
R627	ERG1SJ101E ⚠	100 1W [M]
R628	ERG1SJ101E ⚠	100 1W [M]
R629	ERDS2TJ102T	1K 1/4W [M]
R630	ERDS2TJ124T	120K 1/4W [M]
R631	ERDS2TJ154T	150K 1/4W [M]
R632	ERDS2TJ184T	180K 1/4W [M]
R633	ERDS2TJ473T	47K 1/4W [M]
R634	ERDS2TJ274T	270K 1/4W [M]
R635	ERDS2TJ154T	150K 1/4W [M]
R636	ERDS2TJ473T	47K 1/4W [M]
R637	ERDS2TJ154T	150K 1/4W [M]
R638	ERDS2TJ154T	150K 1/4W [M]
R639	ERDS2TJ104T	100K 1/4W [M]
R640	ERDS2TJ681T	680 1/4W [M]
R641	ERDS2TJ104T	100K 1/4W [M]
R642	ERDS2TJ182T	1.8K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R643	ERDS2TJ563T	56K 1/4W [M]
R644	ERDS1FVJ100T ⚠	10 1/2W [M]
R645	ERDS2TJ470T	47 1/4W [M]
R646	ERDS2TJ332T	3.3K 1/4W [M]
R647	ERDS2TJ221T	220 1/4W [M]
R648	ERDS2TJ683T	68K 1/4W [M]
R649	ERDS2TJ104T	100K 1/4W [M]
R651	ERDS2TJ102T	1K 1/4W [M]
R652	ERDS2TJ102T	1K 1/4W [M]
R653	ERDS2TJ563T	56K 1/4W [M]
R654	ERDS2TJ563T	56K 1/4W [M]
R655	ERDS2TJ182T	1.8K 1/4W [M]
R656	ERDS2TJ182T	1.8K 1/4W [M]
R657	ERDS2TJ563T	56K 1/4W [M]
R658	ERDS2TJ563T	56K 1/4W [M]
R659	ERDS2TJ221T	220 1/4W [M]
R660	ERDS2TJ221T	220 1/4W [M]
R661	ERDS1FVJ100T ⚠	10 1/2W [M]
R662	ERDS1FVJ100T ⚠	10 1/2W [M]
R663	ERDS2TJ470T	47 1/4W [M]
R664	ERDS2TJ470T	47 1/4W [M]
R665	ERDS2TJ102T	1K 1/4W [M]
R666	ERDS2TJ102T	1K 1/4W [M]
R667	ERDS2TJ184T	180K 1/4W [M]
R668	ERDS2TJ154T	150K 1/4W [M]
R669	ERDS2TJ563T	56K 1/4W [M]
R670	ERDS2TJ563T	56K 1/4W [M]
R671	ERD25FVJ181T	180 1/4W [M]GN
R671	ERD25FVJ271T	270 1/4W [M]GC
R672	ERD25FVJ181T	180 1/4W [M]GN
R672	ERD25FVJ271T	270 1/4W [M]GC
R673	ERDS2TJ274T	270K 1/4W [M]
R674	ERDS2TJ684T	680K 1/4W [M]
R675	ERDS2TJ564T	560K 1/4W [M]
R676	ERDS2TJ101T	100 1/4W [M]
R677	ERDS2TJ473T	47K 1/4W [M]
R678	ERDS2TJ473T	47K 1/4W [M]
R689	ERDS2TJ821T	820 1/4W [M]
R690	ERDS2TJ821T	820 1/4W [M]
R698	ERDS2TJ152T	1.5K 1/4W [M]
R699	ERDS2TJ152T	1.5K 1/4W [M]
R703	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R704	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R705	ERDS2TJ472T	4.7K 1/4W [M]
R706	ERDS2TJ102T	1K 1/4W [M]
R707	ERD25FVJ221T	220 1/4W [M]
R708	ERDS2TJ152T	1.5K 1/4W [M]
R709	ERDS2TJ1R5T	1.5 1/4W [M]

Ref No.	Part No.	Values & Remarks
R710	ERDS2TJ1R5T	1.5 1/4W [M]
R711	ERDS2TJ752T	7.5K 1/4W [M]
R712	ERDS2TJ682T	6.8K 1/4W [M]
R713	ERDS2TJ390T	39 1/4W [M]
R714	ERDS2TJ390T	39 1/4W [M]
R721	ERD25FVJ221T	220 1/4W [M]
R722	ERDS2TJ123T	12K 1/4W [M]GN
R722	ERDS2TJ822T	8.2K 1/4W [M]GC
R723	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R724	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R725	ERDS2TJ821T	820 1/4W [M]
R726	ERD25FVJ151T	150 1/4W [M]
R727	ERD25FVJ151T	150 1/4W [M]
R728	ERDS2TJ684T	680K 1/4W [M]
R729	ERDS2TJ684T	680K 1/4W [M]
R730	ERDS1FVJ5R6T ⚠	5.6 1/2W [M]GC
R730	ERDS1FVJ8R2T ⚠	8.2 1/2W [M]GN
R754	ERDS2TJ102T	1K 1/4W [M]
R756	ERDS2TJ222T	2.2K 1/4W [M]
R771	ERDS2TJ104T	100K 1/4W [M]
R773	ERDS2TJ103T	10K 1/4W [M]
R774	ERDS2TJ155T	1.5M 1/4W [M]
R775	ERDS2TJ331T	330 1/4W [M]
R776	ERDS1FVJ150T ⚠	15 1/2W [M]
R777	ERDS2TJ154T	150K 1/4W [M]
R778	ERDS2TJ472T	4.7K 1/4W [M]
R779	ERDS2TJ103T	10K 1/4W [M]
R781	ERDS2TJ222T	2.2K 1/4W [M]
R782	ERDS2TJ390T	39 1/4W [M]
R784	ERDS2TJ154T	150K 1/4W [M]
R786	ERDS2TJ154T	150K 1/4W [M]
R791	ERDS2TJ123T	12K 1/4W [M]
R792	ERDS2TJ123T	12K 1/4W [M]
R793	ERDS2TJ123T	12K 1/4W [M]
R794	ERDS2TJ123T	12K 1/4W [M]
R795	ERDS2TJ223T	22K 1/4W [M]
R797	ERDS2TJ223T	22K 1/4W [M]
R798	ERDS2TJ223T	22K 1/4W [M]
R799	ERDS2TJ682T	6.8K 1/4W [M]
R891	ERDS2TJ103T	10K 1/4W [M]
R892	ERDS2TJ103T	10K 1/4W [M]
R893	ERDS2TJ103T	10K 1/4W [M]
R894	ERDS2TJ103T	10K 1/4W [M]
R901	ERDS2TJ102T	1K 1/4W [M]
R905	ERDS2TJ181T	180 1/4W [M]
R906	ERDS2TJ222T	2.2K 1/4W [M]
R907	ERDS2TJ104T	100K 1/4W [M]
R908	ERDS2TJ104T	100K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R909	ERDS2TJ473T	47K 1/4W [M]
R910	ERDS2TJ102T	1K 1/4W [M]
R911	ERDS2TJ104T	100K 1/4W [M]
R913	ERDS2TJ103T	10K 1/4W [M]
R915	ERDS2TJ104T	100K 1/4W [M]
R917	ERDS2TJ103T	10K 1/4W [M]
R920	ERDS2TJ271T	270 1/4W [M]
R921	ERDS2TJ121T	120 1/4W [M]
R922	ERDS2TJ472T	4.7K 1/4W [M]
R927	ERDS2TJ181T	180 1/4W [M]
R929	ERDS2TJ101T	100 1/4W [M]
R930	ERDS2TJ101T	100 1/4W [M]
R931	ERDS2TJ271T	270 1/4W [M]
R932	ERDS2TJ271T	270 1/4W [M]
R933	ERDS2TJ271T	270 1/4W [M]
R934	ERDS2TJ271T	270 1/4W [M]
R935	ERDS2TJ271T	270 1/4W [M]
R936	ERDS2TJ271T	270 1/4W [M]
R937	ERDS2TJ271T	270 1/4W [M]
R938	ERDS2TJ271T	270 1/4W [M]
R939	ERDS2TJ271T	270 1/4W [M]
R940	ERDS2TJ271T	270 1/4W [M]
R941	ERDS2TJ271T	270 1/4W [M]
R942	ERDS2TJ181T	180 1/4W [M]
R943	ERDS2TJ102T	1K 1/4W [M]
R944	ERDS2TJ104T	100K 1/4W [M]
R945	ERDS2TJ104T	100K 1/4W [M]
R946	ERDS2TJ103T	10K 1/4W [M]
R948	ERDS2TJ103T	10K 1/4W [M]
R949	ERDS2TJ103T	10K 1/4W [M]
R950	ERDS2TJ102T	1K 1/4W [M]
R951	ERDS2TJ122T	1.2K 1/4W [M]
R952	ERDS2TJ152T	1.5K 1/4W [M]
R953	ERDS2TJ182T	1.8K 1/4W [M]
R954	ERDS2TJ222T	2.2K 1/4W [M]
R955	ERDS2TJ332T	3.3K 1/4W [M]
R956	ERDS2TJ472T	4.7K 1/4W [M]
R957	ERDS2TJ682T	6.8K 1/4W [M]
R958	ERDS2TJ123T	12K 1/4W [M]
R977	ERDS2TJ101T	100 1/4W [M]
R980	ERDS2TJ102T	1K 1/4W [M]
R981	ERDS2TJ122T	1.2K 1/4W [M]
R982	ERDS2TJ152T	1.5K 1/4W [M]
R983	ERDS2TJ182T	1.8K 1/4W [M]
R984	ERDS2TJ222T	2.2K 1/4W [M]
R985	ERDS2TJ332T	3.3K 1/4W [M]
R986	ERDS2TJ472T	4.7K 1/4W [M]
R991	ERDS2TJ104T	100K 1/4W [M]
R992	ERDS2TJ104T	100K 1/4W [M]
R993	ERDS2TJ104T	100K 1/4W [M]
R994	ERDS2TJ104T	100K 1/4W [M]
R995	ERDS2TJ104T	100K 1/4W [M]
R996	ERDS2TJ104T	100K 1/4W [M]
R997	ERDS2TJ102T	1K 1/4W [M]
R998	ERDS2TJ101T	100 1/4W [M]
R1001	ERDS2TJ102T	1K 1/4W [M]
R1002	ERDS2TJ102T	1K 1/4W [M]
R1003	ERDS2TJ102T	1K 1/4W [M]
R1004	ERDS2TJ102T	1K 1/4W [M]
R1005	ERDS2TJ203T	20K 1/4W [M]
R1007	ERDS2TJ473T	47K 1/4W [M]
R1008	ERDS2TJ473T	47K 1/4W [M]
R1009	ERDS2TJ332T	3.3K 1/4W [M]
R1010	ERDS2TJ332T	3.3K 1/4W [M]
R1011	ERDS2TJ332T	3.3K 1/4W [M]
R1012	ERDS2TJ102T	1K 1/4W [M]
R1013	ERDS2TJ103T	10K 1/4W [M]
R1014	ERDS2TJ104T	100K 1/4W [M]
R1015	ERD2FCVJ4R7T	4.7 1/4W [M]
R1051	ERDS2TJ393T	39K 1/4W [M]
R1052	ERDS2TJ105T	1M 1/4W [M]
R1053	ERDS2TJ102T	1K 1/4W [M]
R1055	ERDS2TJ224T	220K 1/4W [M]
R1056	ERDS2TJ153T	15K 1/4W [M]
R1061	ERDS2TJ222T	2.2K 1/4W [M]
R1062	ERDS2TJ273T	27K 1/4W [M]
R1063	ERDS2TJ332T	3.3K 1/4W [M]
R1151	ERDS2TJ473T	47K 1/4W [M]
R1152	ERDS2TJ473T	47K 1/4W [M]
R1154	ERDS2TJ333T	33K 1/4W [M]
R1155	ERDS2TJ393T	39K 1/4W [M]
R1156	ERDS2TJ393T	39K 1/4W [M]
R1158	ERDS2TJ104T	100K 1/4W [M]
R1160	ERDS2TJ104T	100K 1/4W [M]
R1681	ERDS2TJ270T	27 1/4W [M]
R1682	ERDS2TJ270T	27 1/4W [M]
R1683	ERDS2TJ270T	27 1/4W [M]
R1684	ERDS2TJ270T	27 1/4W [M]
R1685	ERDS2TJ270T	27 1/4W [M]
R1686	ERDS2TJ270T	27 1/4W [M]
R1687	ERDS2TJ270T	27 1/4W [M]
R1688	ERDS2TJ270T	27 1/4W [M]
R1689	ERDS2TJ270T	27 1/4W [M]
R1690	ERDS2TJ270T	27 1/4W [M]
R1691	ERDS2TJ270T	27 1/4W [M]
R1692	ERDS2TJ270T	27 1/4W [M]
R1693	ERDS2TJ270T	27 1/4W [M]
R1694	ERDS2TJ270T	27 1/4W [M]
R1695	ERDS2TJ102T	1K 1/4W [M]
R1696	ERDS2TJ102T	1K 1/4W [M]
R1699	ERDS2TJ332T	3.3K 1/4W [M]
	CAPACITORS	
C101	ECBT1C103NS5	0.01 16V [M]
C103	ECBT1C103NS5	0.01 16V [M]
C104	ECBT1H102KB5	1000P 50V [M]
C105	ECBT1H470J5	47P 50V [M]
C106	ECBT1C103NS5	0.01 16V [M]
C107	ECBT1H473ZF5	0.047 50V [M]
C108	ECBT1H8R2KC5	8.2P 50V [M]
C109	ECBT1C103NS5	0.01 16V [M]
C110	ECBT1C103NS5	0.01 16V [M]
C111	ECEA1EKA4R7B	4.7 25V [M]
C112	ECBT1C103NS5	0.01 16V [M]
C113	ECBT1H102KB5	1000P 50V [M]
C114	ECEA1HKA3R3B	3.3 50V [M]
C115	ECEA1EKA4R7B	4.7 25V [M]
C116	ECBT1C822MS5	8200P 16V [M]
C117	ECQB1H471JM3	470P 50V [M]
C118	ECQB1H103JM3	0.01 50V [M]
C119	ECQB1H103JM3	0.01 50V [M]
C120	ECEA1HKA010B	1 50V [M]
C121	ECEA1HKA010B	1 50V [M]
C122	ECEA1HKA2R2B	2.2 50V [M]
C123	ECEA1HKA010B	1 50V [M]
C124	ECBT1H102KB5	1000P 50V [M]
C125	ECBT1H150JC5	15P 50V [M]
C126	ECBT1H104ZF5	0.1 50V [M]
C127	ECEA1CKA220B	22 16V [M]
C128	ECBT1C103NS5	0.01 16V [M]
C129	ECEA0JKA101B	100 6.3V [M]
C130	ECEA0JKA101B	100 6.3V [M]
C131	ECBT1C103NS5	0.01 16V [M]
C132	ECBT1H102KB5	1000P 50V [M]
C133	ECBT1H150JC5	15P 50V [M]
C134	ECBT1H180JC5	18P 50V [M]
C135	ECBT1C103MS5	0.01 16V [M]
C136	ECBT1C103MS5	0.01 16V [M]
C137	ECBT1H561KB5	560P 50V [M]
C138	ECBT1H561KB5	560P 50V [M]
C139	ECQB1H682JM3	6800P 50V [M]
C140	ECQB1H682JM3	6800P 50V [M]
C141	ECEA1HKA010B	1 50V [M]
C142	ECEA1HKA010B	1 50V [M]
C143	ECEA1HKA010B	1 50V [M]
C144	ECEA1HKA010B	1 50V [M]
C145	ECBT1H220JC5	22P 50V [M]
C146	ECBT1H331KB5	330P 50V [M]
C147	ECBT1H102KB5	1000P 50V [M]
C148	ECBT1C103NS5	0.01 16V [M]
C149	ECBT1C103NS5	0.01 16V [M]
C150	ECBT1H104ZF5	0.1 50V [M]
C172	ECBT1H331KB5	330P 50V [M]
C173	ECEA1CKA220B	22 16V [M]
C174	ECEA1CKA101B	100 16V [M]
C175	ECBT1C103NS5	0.01 16V [M]
C176	ECBT1C103NS5	0.01 16V [M]
C181	ECBT1H471KB5	470P 50V [M]
C196	ECBT1H102KB5	1000P 50V [M]
C308	ECA0JM101B	100 6.3V [M]
C309	ECA0JM101B	100 6.3V [M]
C311	ECEA1EU4R7B	4.7 25V [M]
C312	ECEA1EU4R7B	4.7 25V [M]
C329	ECBT1H470J5	47P 50V [M]
C330	ECBT1H470J5	47P 50V [M]
C351	ECEA0JKA101B	100 6.3V [M]
C352	ECEA0JKA101B	100 6.3V [M]
C354	ECBT1H104ZF5	0.1 50V [M]
C355	ECBT1H104ZF5	0.1 50V [M]
C357	ECBT1E103ZF5	0.01 25V [M]
C358	ECBT1E103ZF5	0.01 25V [M]
C373	ECEA1CKA470B	47 16V [M]
C374	ECEA1CKA470B	47 16V [M]
C375	ECEA1CKA470B	47 16V [M]
C381	ECEA1HKA3R3B	3.3 50V [M]
C382	ECEA1HKA3R3B	3.3 50V [M]
C383	ECEA1HKA3R3B	3.3 50V [M]
C384	ECEA1HKA3R3B	3.3 50V [M]
C385	ECEA1HKA3R3B	3.3 50V [M]
C386	ECEA1HKA3R3B	3.3 50V [M]
C387	ECEA1HKA3R3B	3.3 50V [M]
C388	ECEA1HKA3R3B	3.3 50V [M]
C401	ECEA1HKA4R7B	4.7 50V [M]GN
C401	ECEA1VKA4R7B	4.7 35V [M]GC
C402	ECEA1HKA4R7B	4.7 50V [M]GN
C402	ECEA1VKA4R7B	4.7 35V [M]GC
C403	ECBT1E103ZF5	0.01 25V [M]
C404	ECBT1E103ZF5	0.01 25V [M]
C405	ECBT1H101KB5	100P 50V [M]
C406	ECBT1H101KB5	100P 50V [M]
C409	ECA1EM220B	22 25V [M]

Ref No.	Part No.	Values & Remarks
C410	ECA1EM220B	22 25V [M]
C411	ECBT1H101KB5	100P 50V [M]
C412	ECBT1H101KB5	100P 50V [M]
C413	ECA1CM100B	10 16V [M]
C414	ECA1CM100B	10 16V [M]
C415	ECBT1E103ZF5	0.01 25V [M]
C416	ECBT1E103ZF5	0.01 25V [M]
C417	ECBT1H101KB5	100P 50V [M]
C418	ECBT1H101KB5	100P 50V [M]
C419	ECBT1H331KB5	330P 50V [M]
C420	ECBT1H331KB5	330P 50V [M]
C421	ECBT1H331KB5	330P 50V [M]
C422	ECBT1H331KB5	330P 50V [M]
C423	ECBT1H101KB5	100P 50V [M]
C424	ECBT1H101KB5	100P 50V [M]
C425	ECBT1H101KB5	100P 50V [M]
C426	ECBT1H101KB5	100P 50V [M]
C427	ECBT1H221KB5	220P 50V [M]
C428	ECBT1H221KB5	220P 50V [M]
C431	ECA1CM100B	10 16V [M]
C432	ECA1CM100B	10 16V [M]
C433	ECBT1H101KB5	100P 50V [M]
C434	ECBT1H101KB5	100P 50V [M]
C440	ECBT1E103ZF5	0.01 25V [M]
C441	ECEA1HKN3R3B	3.3 50V [M]
C451	ECEA1VKA4R7B	4.7 35V [M]
C452	ECEA1VKA4R7B	4.7 35V [M]
C453	ECBT1H100J5	10P 50V [M]
C454	ECBT1H100J5	10P 50V [M]
C455	ECBT1H102KB5	1000P 50V [M]
C456	ECBT1H102KB5	1000P 50V [M]
C457	ECEA1AKA330B	33 10V [M]
C458	ECEA1AKA330B	33 10V [M]
C459	ECFR1E223KR	0.022 25V [M]
C460	ECFR1E223KR	0.022 25V [M]
C461	ECFR1E682KR	6800P 25V [M]
C462	ECFR1E682KR	6800P 25V [M]
C463	ECEA1VKA4R7B	4.7 35V [M]
C464	ECEA1VKA4R7B	4.7 35V [M]
C465	ECBT1E103ZF5	0.01 25V [M]
C466	ECBT1E103ZF5	0.01 25V [M]
C469	ECBT1H181KB5	180P 50V [M]
C470	ECBT1H181KB5	180P 50V [M]
C471	ECEA1HKA4R7B	4.7 50V [M]GN
C471	ECEA1VKA4R7B	4.7 35V [M]GC
C472	ECEA1VKA4R7B	4.7 35V [M]
C473	ECBT1E103ZF5	0.01 25V [M]
C474	ECBT1E103ZF5	0.01 25V [M]

Ref No.	Part No.	Values & Remarks
C475	ECBT1H101KB5	100P 50V [M]
C482	ECEA1HKA3R3B	3.3 50V [M]
C483	ECBT1H101KB5	100P 50V [M]
C491	ECBT1H101KB5	100P 50V [M]
C492	ECBT1H101KB5	100P 50V [M]
C493	ECBT1H101KB5	100P 50V [M]
C494	ECBT1H101KB5	100P 50V [M]
C503	ECEA0JKA101B	100 6.3V [M]
C504	ECEA0JKA101B	100 6.3V [M]
C505	ECFR1C104MR	0.1 16V [M]
C506	ECFR1C104MR	0.1 16V [M]
C511	ECEA1HKA3R3B	3.3 50V [M]
C512	ECEA1HKA3R3B	3.3 50V [M]
C513	ECBT1H150J5	15P 50V [M]
C514	ECBT1H150J5	15P 50V [M]
C515	ECBT1H221KB5	220P 50V [M]
C516	ECBT1H221KB5	220P 50V [M]
C517	ECBT1H330J5	33P 50V [M]
C518	ECBT1H330J5	33P 50V [M]
C519	ECEA1VKA4R7B	4.7 35V [M]
C520	ECEA1VKA4R7B	4.7 35V [M]
C521	ECEA1VKA4R7B	4.7 35V [M]
C522	ECEA1VKA4R7B	4.7 35V [M]
C523	ECFR1E123KR	0.012 25V [M]
C524	ECFR1E123KR	0.012 25V [M]
C525	ECQV1H683JM3	0.068 50V [M]
C526	ECQV1H683JM3	0.068 50V [M]
C527	ECBT1C562KR5	5600P 16V [M]
C528	ECBT1C562KR5	5600P 16V [M]
C529	ECQB1H273JM3	0.027 50V [M]
C530	ECQB1H273JM3	0.027 50V [M]
C531	ECBT1E103ZF5	0.01 25V [M]
C532	ECBT1E103ZF5	0.01 25V [M]
C533	ECEA1CKA100B	10 16V [M]
C534	ECEA1CKA100B	10 16V [M]
C535	ECBT1H104ZF5	0.1 50V [M]
C536	ECBT1H104ZF5	0.1 50V [M]
C537	ECEA1CKA100B	10 16V [M]
C538	ECEA1CKA100B	10 16V [M]
C551	ECEA1HKA3R3B	3.3 50V [M]
C552	ECEA1HKA3R3B	3.3 50V [M]
C553	ECBT1H101KB5	100P 50V [M]
C554	ECBT1H101KB5	100P 50V [M]
C555	ECBT1H221KB5	220P 50V [M]
C556	ECBT1H221KB5	220P 50V [M]
C557	ECBT1E103ZF5	0.01 25V [M]
C558	ECBT1E103ZF5	0.01 25V [M]
C559	ECEA1CKA100B	10 16V [M]

Ref No.	Part No.	Values & Remarks
C560	ECEA1CKA100B	10 16V [M]
C561	ECEA1HKA3R3B	3.3 50V [M]
C562	ECEA1HKA3R3B	3.3 50V [M]
C563	ECBT1H101KB5	100P 50V [M]
C564	ECBT1H101KB5	100P 50V [M]
C565	ECBT1H221KB5	220P 50V [M]
C566	ECBT1H221KB5	220P 50V [M]
C567	ECBT1E103ZF5	0.01 25V [M]
C568	ECBT1E103ZF5	0.01 25V [M]
C571	ECEA1HKA010B	1 50V [M]
C572	ECEA1HKA010B	1 50V [M]
C573	ECBT1H680J5	68P 50V [M]
C574	ECBT1H680J5	68P 50V [M]
C575	ECEA1HKA010B	1 50V [M]
C576	ECBT1H680J5	68P 50V [M]
C585	ECEA1CKA100B	10 16V [M]
C586	ECEA1CKA100B	10 16V [M]
C601	ECA1JM330B	33 6.3V [M]
C602	ECA1JM330B	33 6.3V [M]
C603	ECBT1H821KB5	820P 50V [M]
C604	ECBT1H821KB5	820P 50V [M]
C607	ECCR1H180KC5	18P 50V [M]
C608	ECCR1H180KC5	18P 50V [M]
C611	ECQV1H104JZ3	0.1 50V [M]
C612	ECQV1H104JZ3	0.1 50V [M]
C613	ECQV1H104JZ3	0.1 50V [M]
C614	ECQV1H104JZ3	0.1 50V [M]
C615	ECBT1H103KB5	0.01 50V [M]
C616	ECA1JM330B	33 6.3V [M]
C617	ECEA2AN2R2SB	2.2 100V [M]
C618	ECBT1H102KB5	1000P 50V [M]
C619	ECA1EM101B	100 25V [M]
C621	ECEA2AU100B	10 100V [M]
C622	ECEA2AU100B	10 100V [M]
C625	ECEA1HN100SB	10 50V [M]
C626	ECEA1HN100SB	10 50V [M]
C631	ECKR1H223ZF5	0.022 50V [M]
C632	ECKR1H223ZF5	0.022 50V [M]
C633	ECKR1H223ZF5	0.022 50V [M]
C634	ECKR1H223ZF5	0.022 50V [M]
C635	ECKR1H223ZF5	0.022 50V [M]
C637	ECKR1H223ZF5	0.022 50V [M]
C638	ECKR1H223ZF5	0.022 50V [M]
C639	ECKR1H102KB5	1000P 50V [M]
C640	ECKR1H102KB5	1000P 50V [M]
C641	ECA1JM330B	33 6.3V [M]
C642	ECBT1H821KB5	820P 50V [M]
C643	ECCR1H180KC5	18P 50V [M]

Ref No.	Part No.	Values & Remarks
C644	ECQV1H104JZ3	0.1 50V [M]
C645	ECQV1H104JZ3	0.1 50V [M]
C646	ECQE2334B117	0.33 250V [M]
C651	ECEA1HN3R3SB	3.3 50V [M]
C652	ECEA1HN3R3SB	3.3 50V [M]
C653	ECBT1H681KB5	680P 50V [M]
C654	ECBT1H681KB5	680P 50V [M]
C655	ECEA1JU220B	22 63V [M]
C656	ECEA1JU220B	22 63V [M]
C657	ECCR1H100K5	10P 50V [M]
C658	ECCR1H100K5	10P 50V [M]
C659	ECBT1H221KB5	220P 50V [M]
C660	ECBT1H221KB5	220P 50V [M]
C661	ECQV1H104JZ3	0.1 50V [M]
C662	ECQV1H104JZ3	0.1 50V [M]
C663	ECQV1H104JZ3	0.1 50V [M]
C664	ECQV1H104JZ3	0.1 50V [M]
C665	ECBT1H681KB5	680P 50V [M]
C666	ECBT1H681KB5	680P 50V [M]
C667	ECEA2AU100B	10 100V [M]
C668	ECEA2AU100B	10 100V [M]
C669	ECEA2AN2R2SB	2.2 100V [M]
C670	ECEA1JU220B	22 63V [M]
C671	ECA1JM330B	33 6.3V [M]
C672	ECBT1H102KB5	1000P 50V [M]
C673	ECEA2AU100B	10 100V [M]
C691	ECBT1H102KB5	1000P 50V [M]
C698	ECKR1H181KB5	180P 50V [M]
C701	ECBT1E103ZF5	0.01 25V [M]
C702	ECQE2104KF3	0.1 250V [M]
C703	ECES75V752UM⚠	7500 75V [M]
C704	ECES75V752UM⚠	7500 75V [M]
C705	ECES1VV472N ⚠	4700 35V [M]
C706	ECES1VV472N ⚠	4700 35V [M]
C707	ECA1VM101B	100 35V [M]
C708	ECKR1H103ZF5	0.01 50V [M]
C709	ECEA1CKA330B	33 16V [M]
C710	ECBT1E103ZF5	0.01 25V [M]
C711	ECKR1H103ZF5	0.01 50V [M]
C712	ECEA1HKA100B	10 50V [M]
C713	ECKR1H103ZF5	0.01 50V [M]
C714	ECEA1EKA470B	47 25V [M]
C715	ECEA1CKA101B	100 16V [M]
C721	ECQE2104KF3	0.1 250V [M]
C751	ECKWRS102MBC	1000P 400V [M]
C752	ECKR1H103ZF5⚠	0.01 50V [M]
C753	ECA1EM102E ⚠	1000 25V [M]
C754	ECBT1E103ZF5	0.01 25V [M]

Ref No.	Part No.	Values & Remarks
C755	ECA1CM470B	47 16V [M]
C757	ECA1CM100B	10 16V [M]
C758	ECEA1AKA101B	100 10V [M]
C771	ECEA1HKA4R7B	4.7 50V [M]
C772	ECEA1HKA4R7B	4.7 50V [M]
C773	ECBT1E223ZF5	0.022 25V [M]
C774	ECEA0JKA101B	100 6.3V [M]
C775	ECEA1CKA100B	10 16V [M]
C776	ECEA1HKA010B	1 50V [M]
C891	ECEA1CKA100B	10 16V [M]
C894	ECBT1H101KB5	100P 50V [M]
C895	ECBT1H101KB5	100P 50V [M]
C901	ECEA0JU102B ⚠	1000 6.3V [M]
C902	ECBT1H104ZF5	0.1 50V [M]
C903	ECBT1E103ZF5	0.01 25V [M]
C904	ECEA0JU102B ⚠	1000 6.3V [M]
C905	ECBT1E103ZF5	0.01 25V [M]
C906	ECEA0JKA101B	100 6.3V [M]
C908	ECBT1E103ZF5	0.01 25V [M]
C909	ECEA1VKA220B	22 35V [M]
C910	ECEA1VKA220B	22 35V [M]
C911	ECEA1VKA220B	22 35V [M]
C912	ECEA1VKA220B	22 35V [M]
C913	ECEA1VKA100B	10 35V [M]
C914	ECEA1VKA100B	10 35V [M]
C916	ECEA1HKA010B	1 50V [M]
C920	ECEA1HKA010B	1 50V [M]
C921	ECBT1H331KB5	330P 50V [M]
C922	ECBT1H331KB5	330P 50V [M]
C923	ECBT1H331KB5	330P 50V [M]
C924	ECBT1H331KB5	330P 50V [M]
C925	ECBT1H331KB5	330P 50V [M]
C926	ECBT1H331KB5	330P 50V [M]
C927	ECBT1H331KB5	330P 50V [M]
C928	ECBT1H331KB5	330P 50V [M]
C929	ECBT1H331KB5	330P 50V [M]
C930	ECBT1H331KB5	330P 50V [M]
C932	ECBT1H101KB5	100P 50V [M]
C933	ECBT1H101KB5	100P 50V [M]
C991	ECBT1H101KB5	100P 50V [M]
C992	ECBT1H101KB5	100P 50V [M]
C993	ECBT1H101KB5	100P 50V [M]
C994	ECBT1H101KB5	100P 50V [M]
C995	ECBT1H101KB5	100P 50V [M]
C996	ECBT1H101KB5	100P 50V [M]
C997	ECEA1CKA100B	10 16V [M]
C998	ECBT1E103ZF5	0.01 25V [M]
C1001	ECEA1HKA010B	1 50V [M]

Ref No.	Part No.	Values & Remarks
C1002	ECEA1HKA010B	1 50V [M]
C1003	ECEA1HKA3R3B	3.3 50V [M]
C1004	ECEA1HKA3R3B	3.3 50V [M]
C1005	ECEA1HKA010B	1 50V [M]
C1007	ECFR1E223KR	0.022 25V [M]
C1008	ECFR1E473KR	0.047 25V [M]
C1009	ECEA0JU221B	220 6.3V [M]
C1010	ECEA1CKA100B	10 16V [M]
C1011	ECEA1CKA100B	10 16V [M]
C1012	ECEA1CKA100B	10 16V [M]
C1013	ECEA1CKA100B	10 16V [M]
C1014	ECEA0JU221B	220 6.3V [M]
C1015	ECQV1H104JM3	0.1 50V [M]
C1016	ECQV1H104JM3	0.1 50V [M]
C1017	ECEA1HKAR47B	0.47 50V [M]
C1018	ECEA1HKA4R7B	4.7 50V [M]
C1019	ECEA1HKAR47B	0.47 50V [M]
C1020	ECEA1HKA4R7B	4.7 50V [M]
C1021	ECEA1HKAR15B	0.15 50V [M]
C1022	ECEA1HKA3R3B	3.3 50V [M]
C1023	ECQV1H154JM3	0.15 50V [M]
C1024	ECQV1H154JM3	0.15 50V [M]
C1025	ECEA1HKA3R3B	3.3 50V [M]
C1026	ECEA1HKAR15B	0.15 50V [M]
C1027	ECEA1HKA4R7B	4.7 50V [M]
C1028	ECEA1HKAR47B	0.47 50V [M]
C1029	ECEA1HKA4R7B	4.7 50V [M]
C1030	ECEA1HKAR47B	0.47 50V [M]
C1031	ECQV1H104JM3	0.1 50V [M]
C1032	ECQV1H104JM3	0.1 50V [M]
C1033	ECEA0JKA470B	47 6.3V [M]
C1034	ECQV1H474JM3	0.47 50V [M]
C1035	ECBT1H681KB5	680P 50V [M]
C1036	ECBT1H101KB5	100P 50V [M]
C1037	ECBT1H101KB5	100P 50V [M]
C1038	ECBT1H101KB5	100P 50V [M]
C1039	ECEA1CU101B	100 16V [M]
C1040	ECEA1CKA100B	10 16V [M]
C1041	ECBT1E103ZF5	0.01 25V [M]
C1051	ECEA1HKA2R2B	2.2 50V [M]
C1052	ECEA1HKAR33B	0.33 50V [M]
C1053	ECEA1HKA3R3B	3.3 50V [M]
C1054	ECEA0JU221B	220 6.3V [M]
C1055	ECEA1HKAR47B	0.47 50V [M]
C1056	ECFR1E823KR	0.082 25V [M]
C1057	ECFR1E332KR	3300P 25V [M]
C1058	ECFR1E823KR	0.082 25V [M]
C1059	ECEA1CKA101B	100 16V [M]

Ref No.	Part No.	Values & Remarks
C1060	ECBT1E223ZF5	0.022 25V [M]
C1062	ECBT1E223ZF5	0.022 25V [M]
C1063	ECEA1CKA101B	100 16V [M]
C1064	ECEA1HKA010B	1 50V [M]
C1065	ECBT1H681KB5	680P 50V [M]
C1067	ECBT1C152KR5	1500P 16V [M]
C1068	ECBT1C152KR5	1500P 16V [M]
C1151	ECEA1HKA010B	1 50V [M]
C1152	ECFR1C683KR	0.068 16V [M]
C1153	ECFR1C273KR	0.027 16V [M]
C1154	ECEA1HKA4R7B	4.7 50V [M]GN
C1154	ECEA1VKA4R7B	4.7 35V [M]GC
C1156	ECBT1E103ZF5	0.01 25V [M]
C1157	ECBT1E103ZF5	0.01 25V [M]
C1159	ECEA1HKA010B	1 50V [M]
C1161	ECBT1H101KB5	100P 50V [M]
C1683	ECBT1C332KR5	3300P 16V [M]
C1684	ECBT1C332KR5	3300P 16V [M]
C1685	ECBT1E103ZF5	0.01 25V [M]

Ref No.	Part No.	Values & Remarks

■ Packing Materials & Accessories

Notes : * Important safety notice :
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors),etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
* The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
* Parts without these indication can be used for all areas.
* The mark " (SF) " denotes standard part.
* [M] in Remarks column indicates parts supplied by **MESA**.
* Remote Control Unit : Supply period for three years from termination of production.
* Reference for O/I book languages are as follows :

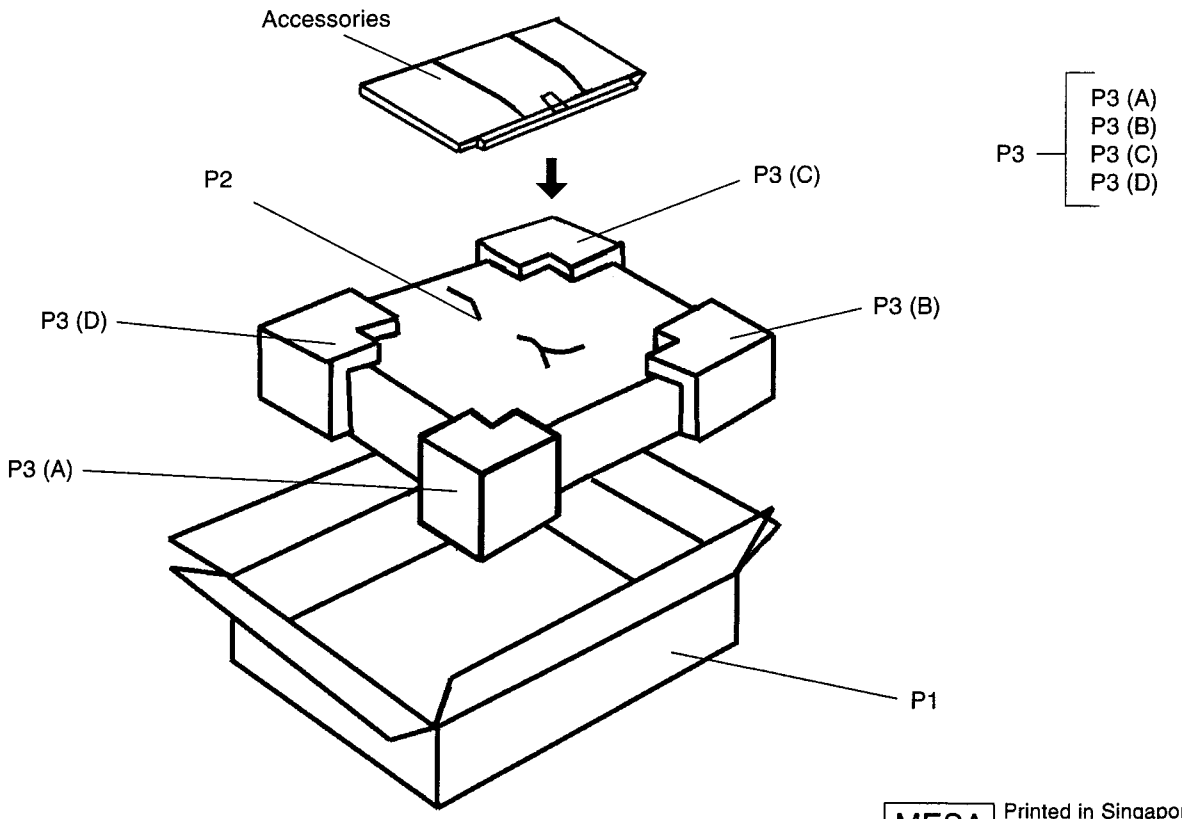
Ar : Arabic Cf : Canadian French Co : Chinese (old) Cn : Chinese (new) Cz : Czech Da : Danish
Du : Dutch En : English Fr : French Ge : German It : Italian Ko : Korean
Po : Polish Ru : Russian Sp : Spanish Sw : Swedish

Ref No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG4344	PACKING CASE	[M]
P2	RPFX0005	MIRAMAT BAG	[M]
P3	RPN0966-2	POLYFOAM	[M]

Ref No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES	
A1	EUR646497	REMOTE CONTROL	[M]
A1-1	UR64EC1987B	R/C BATTERY COVER	[M]
A2	RJA0019-2K	AC CORD (SF) ⚠	[M]GC
A2	RJA0035-X	AC CORD (SF) ⚠	[M]GN
A3	RQT4774-L	O/I BOOK (En)	[M]
A3	RQT4775-G	O/I BOOK (En/Cn/Ar)	[M]GC
A3	RQT4908-B	O/I BOOK FOR REMOTE	[M]
A3	RQT4909-G	O/I BOOK FOR REMOTE	[M]GC

Ref No.	Part No.	Part Name & Description	Remarks
A4	RSA0007	FM ANTENNA	[M]
A5	RSA0010	LOOP ANT UNIT	[M]
A6	RJP1SG04-H	AC CORD ADAPTOR	[M]GC
A7	RFE0014	ANTENNA PLUG	[M]

■ Packaging



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